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USAFETAC/DS-83/022

DATA PROCESSING DIVISION
USAFETAC
Air Weather Service (MAC)

REVISED LINEFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

ELLSWORTH AFB SD
N 42 09 W 103 06

ELEV 3276 FT

MSC #726625
RCA

PARTS A-F

HOURS SUMMARIZED:

0000Z - 2300Z

PERIOD OF RECORD:

HOURLY OBSERVATIONS: JAN 73 - DEC 82

SUMMARY OF DAY DATA: FEB 39 - JUN 45, APR 48 - DEC 82

TIME CONVERSION GMT TO LST: -7

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15 JUN 1983

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
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18. SUPPLEMENTARY NOTES SUPERSEDES REPT. NO. USAFETAC/DS-78/005			
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)			
*RUSSWO Daily temperatures Atmospheric pressure Snowfall Extreme snow depth Extreme surface winds Climatology Sea-level pressure Psychrometric summary Surface Winds Extreme temperature Ceiling versus visibility Relative Humidity *Climatological data (over)			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)			
This report is a six-part statistical summary of surface weather observations for ELLSWORTH AFB, RAPID CITY, SOUTH DAKOTA It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (Daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric (over)			

DD FORM 1473

1 JAN 73

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

*SOUTH DAKOTA

*ELLSWORTH AFB
*RAPID CITY

20. Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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USAFETAC-DS-83/022

ADE 850 401

USSD 726 625

The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WHO number with the addition of a suffix zero; or, in cases where there is no designated WHO number, a 5-digit number created in agreement with WHO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

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U. S. AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day's observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Hereafter, each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Summaries are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All observations requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

SEPTEMBER _____

DECEMBER _____

STATION NO OR SUMMARY 726625	STATION NAME ELLSWORTH AFB SD/RAPID CITY	LATITUDE N 44 09	LONGITUDE W 103 06	FIELD ELEV. (FT.) 3276	CALL SIGN RCA	WMO NUMBER
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STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	MT. BARO.	
1	Rapid City AAF Weather Stn SD	AAF	Feb 1939	Jun 1944	N 44 08	W 103 06	3210	3190	24
2	Same	Same	Jul 1944	May 1948	Same	W 103 05	3196	3189	24
3	Rapid City AFB SD	AFB	Jun 1948	Mar 1954	N 44 09	W 103 06	3246	3215	24
4	Ellsworth AFB SD	Same	Apr 1954	May 1955	Same	Same	Same	Same	24
5	Same	Same	Jun 1955	Feb 1958	Same	Same	Same	Same	24
6	Same	Same	Mar 1958	Dec 1970	Same	Same	3276	Same	24
7	Same	Same	Jan 1971	Dec 1979	Same	Same	Same	Same	24
8	Same	Same	Jan 1980	Mar 1983	Same	Same	Same	Same	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Feb 1939	Not available.	Anemometer	N/A	N/A	
2	Jan 1948	Not available.	Same	N/A	N/A	
3	Jun 1950	Located on control tower.	Selsyn	ML-144	100 ft	
4	Jun 1955	Same	GMQ-11	RO-2	107 ft	
5	Apr 1956	Located approximately 1200 ft SW of weather station near center of NW-SE runway.	AN/GMQ-11	Same	13 ft	
6	May 1964	1. Runway 30-Located 800 ft from centerline and 1700 ft from end of runway.	AN/GMQ-20	RO-2A	20 ft	
		2. Runway 12-Located 730 ft from centerline and 500 ft from end of runway.	Same		28 ft	

USAFETAC FORM NOV 73 0-19 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT. ABOVE GROUND	
7	May 1969	1. Same	Same	RO-362	Same	
		2. Same	Same		Same	
8	Jan 1971	1. Located 887 ft from centerline and 1886 ft from end of rnwy 30.	Same	Same	Same	
		2. Located 730 ft from centerline and 892 ft from end of rnwy 12.	Same		Same	
9	Dec 1979	1. Same	Same	Same	Same	
		2. Same	Same		Same	
	Mar 1983	1. Same	Same	Same	Same	
		2. Same	Same		Same	

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PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		.6		15.4		15.8	1.5		2.3	.1	3.8	930
	03-05		.2	.1	17.6		17.8	1.5		2.4		3.9	930
	06-08		.2	.4	17.8		18.5	2.3		2.6		4.7	937
	09-11		.5	.2	16.8		17.4	5.2	.2	4.3		9.2	930
	12-14		.3		15.4		15.6	3.2	.5	5.1		8.5	930
	15-17		.2	.1	13.7		13.8	2.5		5.3		7.5	930
	18-20		.1		14.3		14.4	1.9		4.0		5.9	930
	21-23		.3		15.1		15.3	1.6		2.7		4.3	930
TOTALS			.3	.1	15.8		16.1	2.5	.1	3.6	.0	6.0	7440

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WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02		.9	.7	20.4		21.9	6.4		2.7		9.1	845
	03-05		1.1	.8	20.4		22.0	8.4		3.0		11.2	846
	06-08		.7	1.7	19.1		20.8	9.9	.1	3.7		13.7	846
	09-11		.8	.8	18.2		19.5	9.1	.5	4.4		13.7	845
	12-14		.4	.2	14.1		14.7	7.2	.2	3.8		11.2	846
	15-17		.6		14.7		15.2	5.7	.2	1.7		7.6	846
	18-20		.9		17.6		18.2	3.4		2.5		5.7	846
	21-23		.8	.1	18.8		19.7	5.0		1.9		6.9	846
TOTALS			.8	.5	17.9		19.0	6.9	.1	3.0		9.9	6766

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WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	T/UNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		2.5	.8	14.7		17.0	4.6		3.3		9.0	930
	03-05		1.2	1.0	14.6		16.0	3.7		3.8		7.4	930
	06-08		.8	.5	13.8		14.6	5.7		3.2		8.9	929
	09-11		.8	.1	13.9		14.5	6.3		3.1		9.2	930
	12-14		1.9		10.4		12.0	4.5		3.2		7.3	930
	15-17		1.5	.3	10.5		11.8	3.4	.1	3.2		6.7	930
	18-20	.2	2.8	.1	11.7		13.9	4.1	.2	3.7		8.0	930
	21-23		3.8	.2	12.9		14.9	4.9		3.0		8.0	930
TOTALS		.0	1.9	.4	12.6		14.3	4.7	.0	3.3		7.9	7439

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WEATHER CONDITIONS

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ELLSWORTH AFB SD

73-82

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02		8.6		6.9	.1	14.7	6.7		.2		6.8	900
	03-05		6.9	.1	7.1		13.2	8.1		.2	.3	8.7	900
	06-08		7.0	.1	8.1		14.1	10.1	.1	.8	.4	11.3	900
	09-11	.2	7.6		6.0		13.0	7.4		.6	.2	8.1	900
	12-14		5.9		4.8		10.1	5.2	.3	1.1	.1	6.8	900
	15-17	.3	8.4		5.1	.1	13.2	3.8	.6	.7		5.0	900
	18-20	1.0	8.2		5.3		13.5	3.9	.2	.7		4.8	899
	21-23	.4	8.6	.2	6.8		15.0	4.8	.1	.6		5.3	900
TOTALS		.2	7.7	.1	6.3	.0	13.4	6.3	.2	.6	.1	7.1	7199

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WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

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MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02	1.0	11.2		1.0		11.7	2.4				2.4	930
	03-05	.6	11.6		.8		12.2	5.6				5.6	930
	06-08	.2	10.3		1.0		11.3	7.7				7.7	930
	09-11	.4	11.1		1.0		11.9	4.6				4.6	930
	12-14	2.4	12.3		.6	.1	12.8	3.0	.3		.3	3.7	930
	15-17	2.5	10.6		.3	.2	11.0	1.9			.3	2.3	930
	18-20	3.8	12.0			.2	12.0	2.3			.3	2.6	930
	21-23	2.0	11.5		.5		11.8	1.8	.1			1.8	929
TOTALS		1.6	11.3		.7	.1	11.8	3.7	.1		.1	3.8	7439

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WEATHER CONDITIONS

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ELLSWORTH AFB SD

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JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	3.6	8.9				8.9	.2				.2	899
	03-05	1.2	5.2				5.2	1.9				1.9	900
	06-08	.3	4.7				4.7	2.9				2.9	900
	09-11	.2	5.1				5.1	2.4				2.4	900
	12-14	4.6	6.6				6.6	.9				.9	899
	15-17	6.8	8.8				8.8	.8				.8	900
	18-20	5.6	8.4			.1	8.4	.6				.6	900
	21-23	4.8	8.3				8.3	.7				.7	900
TOTALS		3.4	7.0			.0	7.0	1.3				1.3	7198

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WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	2.9	6.5				6.5	1.1				1.1	930
	03-05	1.3	3.7				3.7	3.7	.1			3.7	930
	06-08	1.0	4.0				4.0	3.9	.1			4.0	930
	09-11	.4	3.9				3.9	.6				.6	930
	12-14	4.2	6.5			.1	6.5	1.1	.2			1.3	930
	15-17	5.7	7.6				7.6	1.0	.3			1.3	929
	18-20	5.3	6.3			.1	6.3	.3	.2			.5	930
	21-23	4.1	6.2				6.2	.4				.4	930
TOTALS		3.1	5.6			.0	5.6	1.5	.1			1.6	7439

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	1.4	4.2				4.2	.9				.9	929
	03-05	.9	4.3				4.3	2.3				2.3	930
	06-08	.4	4.0				4.0	2.7				2.7	930
	09-11	.2	3.2				3.2	1.3	.1			1.4	930
	12-14	3.1	4.9				4.9	.1	.3			.4	930
	15-17	5.1	5.3				5.3	.4				.4	929
	18-20	3.8	5.0				5.0	.2				.2	929
	21-23	3.8	6.4				6.4	.3	.1			.4	929
TOYALS		2.3	4.7				4.7	1.0	.1			1.1	7436

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.7	3.4				3.4	1.6				1.6	900
	03-05	.6	4.2				4.2	1.3				1.3	900
	06-08	.3	5.8				5.8	3.4				3.4	900
	09-11	.3	5.7				5.7	2.8				2.8	900
	12-14	.4	4.7				4.7	1.2				1.2	900
	15-17	1.3	4.4				4.4	.8				.8	900
	18-20	1.3	5.6				5.6	1.0				1.0	900
	21-23	.8	5.6		.1		5.6	1.1				1.1	900
TOTALS		.7	4.9		.1		4.9	1.7				1.7	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.2	5.6		2.3		7.6	1.6				1.6	930
	03-05	.2	5.6		2.3		7.2	1.4		.1		1.5	930
	06-08	.5	5.6	.2	2.5	.1	7.6	2.0		.3	.1	2.5	930
	09-11	.2	4.7		3.4		7.7	1.9		.3		2.3	930
	12-14	.1	5.3		3.2	.1	8.3	2.0		.3		2.4	930
	15-17		5.4		2.9		8.1	2.5		.1		2.6	930
	18-20	.2	5.1		3.2		7.6	1.0		.3		1.3	930
	21-23	.4	5.5		3.1		8.3	1.0		.3	.1	1.4	930
TOTALS		.2	5.4	.0	2.9	.0	7.8	1.7		.2	.0	2.0	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		.9	.4	13.1		14.2	4.0		1.9		5.6	900
	03-05		.3	1.0	13.1		14.1	5.0		1.6		6.6	900
	06-08		1.1	.9	12.1		13.4	6.3	.1	2.0		8.3	900
	09-11		1.4	.8	12.3		14.1	5.7		1.7		7.2	900
	12-14		.9	.2	9.9		10.9	4.4		1.4		5.7	900
	15-17		1.1		9.7		10.6	4.2		1.4		5.7	900
	18-20		.6		11.4		11.9	2.6		1.8		4.3	900
	21-23		1.6	.4	12.4		14.2	3.4		1.6		5.0	900
TOTALS			1.0	.5	11.8		12.9	4.5	.0	1.7		6.1	7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		.4	.5	13.7		14.6	5.2		1.8		7.0	929
	03-05		.8	.8	13.1		14.4	5.9		1.8		7.7	930
	06-08		.9	.5	12.3		13.7	5.7		1.7		7.1	930
	09-11	.1	.4		12.0		12.2	5.1		2.2		7.2	930
	12-14		1.0	.2	10.4		11.4	4.5		1.7		5.9	930
	15-17		1.1	.3	9.8		11.0	3.6		2.5		6.0	929
	18-20		.6	.9	13.0		14.0	3.5		1.9		5.4	926
	21-23		.9	.8	13.6		15.0	3.2		2.4		5.5	927
TOTALS		.0	.8	.5	12.2		13.3	4.6		2.0		6.5	7431

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

726625

ELLSWORTH AFB SD

73-82

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		.3	.1	15.8		16.1	2.5	.1	3.6	.0	6.0	7440
FEB			.8	.5	17.9		19.0	6.9	.1	3.0		9.9	6766
MAR		.0	1.9	.4	12.8		14.3	4.7	.0	3.3		7.9	7439
APR		.2	7.7	.1	6.3	.0	13.4	6.3	.2	.6	.1	7.1	7199
MAY		1.6	11.3		.7	.1	11.8	3.7	.1		.1	3.8	7439
JUN		3.4	7.0			.0	7.0	1.3				1.3	7198
JUL		3.1	5.6			.0	5.6	1.5	.1			1.6	7439
AUG		2.3	4.7				4.7	1.0	.1			1.1	7436
SEP		.7	4.9		.0		4.9	1.7				1.7	7200
OCT		.2	5.4	.0	2.9	.0	7.8	1.7		.2	.0	2.0	7440
NOV			1.0	.5	11.8		12.9	4.5	.0	1.7		6.1	7200
DEC		.0	.8	.5	12.2		13.3	4.6		2.0		6.5	7431
TOTALS		1.0	4.3	.2	6.7	.0	10.9	3.4	.1	1.2	.0	4.6	87627

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than $\frac{5}{8}$ mile.

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

XX WEATHER CONDITIONS
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
ATMOSPHERIC PHENOMENA

726625 ELLSWORTH AFB SD 49-82 ALL
STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		7.4	1.6	49.1		51.4	17.8	.3	16.2	.1	29.9	1043
FEB			11.6	3.5	51.9		55.2	26.0	.9	13.7		34.9	959
MAR		.5	16.9	2.7	46.2		53.2	22.4	.9	11.0	.4	30.2	1049
APR		4.1	37.0	1.9	27.9	.7	51.8	21.3	1.3	4.5		24.1	1000
MAY		17.7	55.5	.2	4.1	4.3	56.8	16.3	.6	.6		17.1	1054
JUN		32.7	54.7		.5	4.1	54.8	12.4	.1	.1		12.5	1020
JUL		34.3	48.2			3.7	48.2	7.0	.2			7.1	1054
AUG		26.0	42.8			3.0	42.8	6.3	.6			6.6	1054
SEP		9.0	33.1	.2	2.8	.6	33.6	9.1	.1	.1		9.2	1020
OCT		1.1	23.5	.9	11.0	.3	29.0	9.6	.1	.9		10.2	1054
NOV		.1	14.1	2.6	30.1	.2	37.0	16.0	.3	7.7		20.7	1019
DEC		.1	10.0	2.8	41.9		45.5	19.0	.1	11.1		26.9	1054
TOTALS		10.5	29.6	1.4	22.1	1.4	46.6	15.3	.5	5.5	.0	19.1	12380

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

- *1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
- *2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:
- | | | |
|-----------------------------|-------|--|
| EXTREME DAILY PRECIPITATION | ".00" | equals none for the month (hundredths) |
| EXTREME DAILY SNOWFALL | ".0" | equals none for the month (tenths) |
| EXTREME DAILY SNOW DEPTH | "0" | equals none for the month (whole inches) |
3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

* Values for means and standard deviations do not include measurements from incomplete months.

- 3
- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

43-45, 48-82

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	49.3	30.1	4.7	7.3	3.5	4.2	.7		.1					20.6	1116	.49	1.74	.01
FEB	44.1	32.7	3.5	9.0	4.1	4.9	1.2	.5						23.2	1016	.62	2.19	TRACE
MAR	46.0	28.6	5.0	8.1	5.2	3.9	2.2	.6	.3					25.4	1145	.99	3.12	.05
APR	49.6	22.9	3.2	7.1	4.1	5.7	4.1	2.3	1.1					27.5	1134	1.92	5.59	.02
MAY	43.1	22.0	3.5	6.6	6.2	7.0	5.2	4.3	2.0	.1				34.9	1178	3.07	9.81	.23
JUN	43.0	19.4	2.5	8.8	5.6	7.7	6.7	4.3	2.0	.1				37.6	1116	3.16	7.74	.84
JUL	51.4	22.0	3.1	6.0	4.6	5.0	3.5	3.3	.9	.2				26.5	1139	2.13	5.73	.04
AUG	56.8	20.1	2.9	5.9	2.6	4.8	4.0	2.4	.5					23.1	1147	1.52	4.10	.07
SEP	66.1	16.1	2.1	5.0	2.7	3.9	2.0	1.6	.5					17.7	1110	1.09	3.03	.01
OCT	70.6	14.6	2.0	3.7	2.7	2.7	2.2	1.0	.3					14.7	1147	.92	3.54	.01
NOV	62.5	20.6	2.6	6.2	2.9	3.3	1.1	.6	.1					16.9	1109	.56	2.30	.08
DEC	55.2	26.7	3.2	7.3	3.7	3.3	.5							18.0	1144	.39	1.10	TRACE
ANNUAL	53.1	23.0	3.2	6.7	4.0	4.7	2.8	1.7	.6	.0				23.8	13501	16.86		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

43-45, 48-82

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
43			* .05*	.03	.75*	.85*	.70	.03	.16	.48	.10	.75	
44	1.22	.29	.24	.65	1.64	1.60	2.22	.40	.14	.40	1.05	.16	2.22
45	.18	.15	2.20	.10	.59	.65							
48				* .02	.70	.85	.84	1.09	.22	.99	.10	.14	
49	.12	.25	.10	1.05	1.03	1.33	.03	.38	.04	.59	.09*	.15	1.33
50	.50	.28	.61	1.40	1.00	.44	.39	.75	1.21	.38	.22	TRACE	1.40
51	.06	TRACE	.20	.10	.32	.97	.52	1.34	.99	.65	.09	.24	1.34
52	.01	.30	.36	.17	1.31	.86	.98	.74	.01	.01	.28	.03	1.31
53	.15	.64	.49	1.07	.42	1.90	.47	.82	.43	.04	.15	.77	1.90
54	.07	.17	1.09	.17	.99	1.36	.34	.66	.05	.47	.45	.11	1.36
55	.20	.99	.30	.61	1.58	.55	1.29	.48	.90	.15	.28	.22	1.58
56	.27	.11	.71	.56	.53	.54	.50	.73	1.34	.20	.40	.10	1.34
57	.16	.18	.19	.37	1.53	.59	.21	.54	.40	.33	.16	.03	1.53
58	.28	.14	.40	1.72	.41	1.85	.69	.43	.04	.33	.30	.22	1.85
59	.20	.24	.06	.73	1.07	.77	1.01	.79	1.08	.05	.63	.12	1.08
60	.14	.29	.27	.77	.70	1.35	.09	1.13	.57	.01	.19	.48	1.35
61	.11	.12	.39	.52	.33	.60	.52	.07	.27	.66	.34	.17	.66
62	.39	.31	.33	.26	2.09	.63	1.17	.40	.23	1.42	.04	.14	2.09
63	.22	.48	.95	1.22	1.14	1.55	.50	.32	.72	.30	.19	.04	1.55
64	.22	.33	.51	.65	.89	1.43	.22	1.01	.72	.49	.17	.27	1.43
65	.24	.09	.16	.49	3.09	.76	.78	.63	.59	.30	.09	.15	3.09
66	.06	.62	1.43*	1.40	.13	.49	1.68	.61	1.93	.82	.37	.10	1.93
67	.17	.07	.17	1.84	1.25	2.42	.84	.28	.57	.08	.20	.11	2.42
68	.10	.13	.04	.74	.38	2.30	1.25	.78	.41	.08	.16	.30	2.30
69	.03	.23	.14	.44	1.31	.85	3.23	.04	.28	.31	.11	.16	3.23
70	.31	.32	.38	1.66	.70	1.80	.37	.18	.48	.22	.54	.22	1.80
71	.44	.25	.46	.83	1.22	.55	.31	.34	.95	.68	.23	.04	1.22
72	.11	.11	.19	.83	.73	2.30	2.66	.82	.10	.71	.11	.16	2.66
73	.03*	.05	1.26	.87	.71	.51	.60	.53	.59	.98	.25	.21	1.26
74	.06	.24	.19	.48	.70	.47	.69	1.03	.71	.79	.07	.05	1.03
MEAN													
S D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OIA)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD
STATION STATION NAME

43-45, 48-82
YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
43			* .12*	.04	1.90*	1.13*	1.10	.07	.16	.77	.17	.13	
44	1.74	.41	.87	1.63	4.05	5.01	4.07	.53	.31	.79	2.30	.41	22.12
45	.60	.60	3.12	.35	2.30	4.09							
48				* .02	1.15	2.91	2.05	2.61	.51	1.20	.13	.14	
49	.48	.25	.32	2.42	1.61	2.08	.04	1.04	.07	1.15	.13*	.17	* 9.76
50	.63	.30	2.37	2.48	1.98	.84	1.22	2.32	2.29	.68	.33	TRACE	15.44
51	.06	TRACE	.70	.19	1.73	3.32	.92	4.10	2.72	1.30	.18	.80	15.99
52	.01	.78	.73	.21	6.01	2.51	1.63	1.60	.01	.01	.32	.73	13.85
53	.56	2.19	.59	3.33	2.12	5.14	.85	2.74	.65	.07	.52	.19	18.95
54	.17	.28	2.21	.18	2.48	3.11	.60	1.76	.08	1.01	.56	.25	12.69
55	.53	1.82	.82	1.16	2.29	2.35	2.55	1.28	2.26	.30	.50	.85	16.71
56	.59	.28	1.12	1.82	1.74	1.24	1.96	2.77	1.70	.23	.86	.34	14.65
57	.38	.41	.40	1.46	6.60	2.98	.71	1.38	.58	1.05	.32	.04	16.31
58	.28	.59	.89	5.45	1.02	6.24	3.95	.72	.06	.46	.80	.68	21.14
59	.62	.71	.21	1.50	2.54	1.86	1.08	1.02	2.59	.11	2.16	.37	14.77
60	.39	.99	.71	1.31	1.32	3.94	.33	2.45	.74	.01	.54	.89	13.62
61	.14	.29	.85	1.39	1.12	1.14	1.47	.10	.65	.84	.61	.60	9.20
62	1.30	1.13	.80	.56	9.81	3.06	3.02	.49	.31	1.82	.09	.24	22.63
63	1.12	1.31	1.12	3.69	2.37	3.84	1.27	.95	1.43	.62	.30	.19	18.21
64	.39	1.03	1.09	1.20	3.10	4.47	.63	1.56	.82	.49	.38	1.10	16.26
65	.77	.28	.49	1.51	7.56	3.23	2.55	2.45	1.83	.57	.27	.27	21.78
66	.27	.98	2.34*	3.04	.23	1.91	5.73	1.77	2.84	1.77	.94	.45	*22.27
67	.36	.25	.40	5.59	4.84	7.74	2.25	.76	1.96	.20	.23	.39	24.97
68	.25	.48	.11	1.79	1.25	6.80	2.08	2.26	.99	.08	.46	.70	17.25
69	.16	.85	.52	1.47	2.27	3.22	4.87	.09	.67	.67	.28	.38	15.45
70	.92	.50	1.32	4.50	2.53	2.64	.91	.37	1.52	.85	1.23	.55	17.84
71	1.05	.78	.86	3.23	4.11	1.87	.92	1.00	2.36	1.92	.62	.08	18.80
72	.31	.41	.44	2.87	3.61	6.21	4.52	1.52	.22	.84	.25	.41	21.61
73	.07*	.16	2.78	2.79	2.54	.92	1.98	1.21	1.74	1.32	.62	.41	*16.54
74	.13	.32	.43	1.47	2.56	1.09	1.49	2.29	.81	1.27	.08	.14	12.05
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

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(FROM DAILY OBSERVATIONS)

YEAR:

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USAF ETAC FORM 11-64

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

49-87

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.03	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	50.8	29.2	9.8	6.7	2.3	.8	.3	.1	.1					20.0	1054	5.3	18.7	TRACE
FEB	47.8	29.7	9.4	7.2	3.2	1.6	.5	.4	.2					22.5	959	7.2	19.5	.7
MAR	52.9	24.7	9.3	7.6	2.5	1.0	.5	.6	.7	.3				22.4	1054	9.1	28.7	TRACE
APR	71.7	15.4	4.7	3.0	2.1	1.2	.6	.8	.4		.1			12.9	1019	6.6	42.8	TRACE
MAY	95.6	2.6	.4	.9	.2	.2	.1	.1						1.8	1054	.7	7.1	.0
JUN	99.5	.2	.1	.1				.1						.3	1020	.2	6.1	.0
JUL	100.0														1054	.0	.0	.0
AUG	100.0														1054	.0	.0	.0
SEP	97.3	2.3	.3	.2										.5	1020	.1	1.6	.3
OCT	89.2	6.7	1.2	1.8	.5	.4		.2						4.1	1053	1.6	8.2	.0
NOV	69.9	17.3	5.1	4.3	1.6	.8	.5	.4	.1	.1				12.9	1019	4.7	16.0	.0
DEC	58.0	24.4	7.1	6.3	2.8	.9	.5	.1						17.6	1054	5.2	11.0	TRACE
ANNUAL	77.7	12.7	3.9	3.2	1.3	.6	.2	.2	.1	.0	.0			9.6	12414	40.7		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

49-82

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49	3.0	2.5	1.0	TRACE	TRACE	.0	.0	.0	TRACE	1.0	.0	2.0	3.0
50	.9	1.7	6.7	4.6	3.5	.0	.0	.0	TRACE	3.0	3.9	TRACE	6.7
51	.6	.6	3.0	1.0	TRACE	5.9	.0	.0	TRACE	TRACE	.7	2.3	5.9
52	TRACE	3.0	3.6	.3	.0	.0	.0	.0	.0	TRACE	.4	.3	3.6
53	1.5	6.4	4.9	2.3	.9	.0	.0	.0	.0	.0	1.5	.7	6.4
54	.7	.7	10.9	TRACE	1.0	TRACE	.0	.0	.0	4.7	4.5	.5	10.9
55	2.0	9.7	3.0	6.1	.0	.0	.0	.0	.3	.5	2.8	2.2	9.7
56	2.7	1.1	7.1	5.6	.6	.0	.0	.0	.0	.3	4.0	1.0	7.1
57	1.6	1.8	1.9	3.3	.0	.0	.0	.0	.3	TRACE	.4	.1	3.3
58	2.8	1.4	1.0	5.4	.0	.0	.0	.0	.0	.1	3.0	2.3	5.4
59	2.0	2.2	.6	8.0	TRACE	.0	.0	.0	TRACE	.5	7.1	1.2	8.0
60	1.4	2.9	1.0	5.4	.0	.0	.0	.0	TRACE	.1	1.6	5.8	5.8
61	1.1	1.2	3.6	2.2	TRACE	.0	.0	.0	.6	2.3	2.1	2.1	3.6
62	3.9	3.1	1.8	.5	.0	.0	.0	.0	TRACE	.0	.2	1.4	3.9
63	2.2	4.8	8.7	2.8	.0	.0	.0	.0	.0	TRACE	.4	.6	8.7
64	2.4	3.7	5.2	1.7	.0	.0	.0	.0	.0	.0	1.8	2.7	5.2
65	2.4	.9	1.6	5.4	4.5	.0	.0	.0	1.2	.0	.3	.1	5.4
66	.6	7.2	14.2*	8.6	.5	.0	.0	.0	.0*	.7	5.3	1.9	14.2
67	2.5	1.7	2.9	7.3	2.2	.0	.0	.0	TRACE	.0	2.0	1.9	7.3
68	3.4	2.2	.5	3.6	TRACE	.0	.0	.0	.0	.0	1.0	3.0	3.6
69	.4	2.9	1.8	1.8	TRACE	.8	.0	.0	.0	2.5	1.0	4.0	4.0
70	1.5	4.3	5.3	18.0	TRACE	.0	.0	.0	TRACE	2.3	3.0	2.8	18.0
71	6.9	4.0	5.7	5.4	.0	.0	.0	.0	TRACE	5.0	3.2	2.0	6.9
72	2.0	2.6	.3	1.3	.5	.0	.0	.0	TRACE	1.3	1.2	2.8	2.8
73	.8*	.8	14.0	2.5	.0	.0	.0	.0	.0	1.3	4.7	3.9	14.0
74	1.2	2.9	.5	4.2	.0	.0	.0	.0	TRACE	TRACE	.6	.6	4.2
75	4.1	2.1	3.2	1.9	.0	.0	.0	.0	.0	2.3	6.0	4.0	6.0
76	3.8	2.7	2.0	1.0	.0	.0	.0	.0	.0	.3*	3.0	3.0	3.8
77	2.0	2.0	10.0	.2	.0	.0	.0	.0	.0	TRACE	12.0	2.0	12.0
78	.5	4.3	2.2	4.0	.8	.0	.0	.0	.0	TRACE	3.7	1.2	4.3
MEAN													
S.D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

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SNOWFALL

(FROM DAILY OBSERVATIONS)

40-82

STATION

STATION NAME

YEARS

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USAF ETAC FORM 0-88-5 (OLA)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

49-82

STATION

STATION NAME

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49	12.1	2.5	2.4	TRACE	TRACE	.0	.0	.0	TRACE	1.0	.0	7.3	25.3
50	2.4	1.9	28.7	12.3	5.1	.0	.0	.0	TRACE	6.0	6.9	TRACE	63.3
51	.6	.7	6.6	1.4	TRACE	6.1	.0	.0	TRACE	TRACE	1.7	7.7	24.8
52	TRACE	7.5	5.8	.3	.0	.0	.0	.0	.0	TRACE	.4	.3	14.3
53	5.5	19.5	5.9	9.0	.9	.0	.0	.0	.0	.0	3.3	1.3	45.4
54	1.8	1.5	22.1	TRACE	1.9	TRACE	.0	.0	.0	6.5	5.6	1.0	40.4
55	5.3	18.0	8.2	6.6	.0	.0	.0	.0	.3	.7	4.5	8.5	52.1
56	4.5	2.8	11.2	13.8	.6	.0	.0	.0	.0	.3	8.6	3.2	45.0
57	3.8	4.1	4.0	11.9	.0	.0	.0	.0	.3	TRACE	1.2	.1	25.4
58	3.0	4.7	4.6	16.1	.0	.0	.0	.0	.0	.1	4.4	6.6	39.5
59	4.7	6.9	2.1	13.3	TRACE	.0	.0	.0	TRACE	.5	16.0	3.4	46.9
60	3.9	9.9	4.4	6.6	.0	.0	.0	.0	TRACE	.1	4.6	10.6	40.1
61	1.4	2.1	7.0	4.0	TRACE	.0	.0	.0	.6	2.7	3.7	6.1	27.6
62	12.3	7.6	6.1	.6	.0	.0	.0	.0	TRACE	.0	.2	2.3	29.1
63	11.2	10.9	10.5	4.7	.0	.0	.0	.0	.0	TRACE	.4	2.1	39.8
64	4.3	10.0	10.4	3.5	.0	.0	.0	.0	.0	.0	3.6	11.0	42.8
65	5.5	2.7	4.9	7.8	7.1	.0	.0	.0	1.6	.0	.6	.1	30.3
66	2.7	10.8	24.1*	12.1	.5	.0	.0	.0	.0*	.7	8.2	6.5	* 65.6
67	6.5	7.0	7.4	7.3	4.3	.0	.0	.0	TRACE	.0	4.0	10.7	47.2
68	8.5	7.2	1.3	9.0	TRACE	.0	.0	.0	.0	.0	1.1	9.9	37.0
69	1.9	10.2	5.6	3.0	TRACE	.8	.0	.0	.0	2.5	2.7	6.4	33.1
70	5.9	6.0	15.6	42.8	TRACE	.0	.0	.0	TRACE	5.8	4.3	9.1	89.5
71	18.7	12.7	13.5	7.0	.0	.0	.0	.0	TRACE	8.2	8.8	3.1	72.0
72	5.6	10.4	.7	1.6	.5	.0	.0	.0	TRACE	2.4	3.2	7.5	31.9
73	1.8*	2.3	19.2	3.5	.0	.0	.0	.0	.0	2.3	11.2	6.3	* 46.6
74	2.4	4.6	1.2	6.1	.0	.0	.0	.0	TRACE	TRACE	.6	2.2	17.1
75	13.3	7.2	15.4	2.7	.0	.0	.0	.0	.0	5.0	7.6	10.3	62.5
76	4.3	6.1	4.2	1.0	.0	.0	.0	.0	.0	.3*	8.5	6.6	* 31.7
77	7.5	3.2	21.4	.3	.0	.0	.0	.0	.0	TRACE	12.6	7.6	52.6
78	.9	16.1	3.9	4.0	.8	.0	.0	.0	.0	TRACE	12.5	2.3	40.5
MEAN													
S. D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

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(FROM DAILY OBSERVATIONS)

49-82

YEARS

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NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

726625 STATION ELLSWORTH AFB SD 43-45, 48-82 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	37.2	23.2	15.7	9.6	4.9	5.8	3.4	.3						39.6	1109			
FEB	43.0	16.4	12.4	10.1	6.2	9.4	4.9	.6						43.6	1009			
MAR	53.7	15.5	10.6	7.5	4.4	5.2	2.5	.6						30.8	1116			
APR	83.2	7.4	3.2	2.1	1.1	1.4	1.0	.6						9.4	1134			
MAY	98.5	.4	.4	.3		.3	.1							1.1	1177			
JUN	99.7	.1	.1			.1								.2	1118			
JUL	100.0														1139			
AUG	100.0														1147			
SEP	99.7	.2		.1										.1	1110			
OCT	95.2	2.2	1.2	.4	.4	.5								2.6	1145			
NOV	70.9	12.7	5.9	4.1	1.9	3.1	1.4							16.3	1101			
DEC	47.1	22.8	11.7	8.7	5.3	4.2	.1							30.1	1133			
ANNUAL	77.1	8.4	5.1	3.6	2.0	2.5	1.1	.2						14.5	13438			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

43-45, 48-82
YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
43			*	3	0*	0*	0*	0	0	0*	0*	0*	1
44	*	13*	7*	5*	0	0	0	0	0	0	2*	10*	5
45	*	5*	5*	4*	1	0	0	0	0	0	0	0	
48			*		0	0	0	0	0	0	1	3	
49	11	12	2	0	TRACE	0	0	0	TRACE	0	0	3	12
50	4	1	13	7	4	0	0	0	0	5	4	1	13
51	1	TRACE	8	2	0	6	0	0	0	TRACE	2	2	8
52	TRACE	4	5	TRACE	0	0	0	0	0	0	TRACE	1	5
53	1	15	11	2	TRACE	0	0	0	0	0	2	1	15
54	2	1	13	1	1	0	0	0	0	6	2	6	13
55	2	10	4	2	0	0	0	0	0	1	4	3	10
56	3	2	8	3	TRACE	0	0	0	0	TRACE	5	2	8
57	2	4	3	6	0	0	0	0	0	TRACE	TRACE	TRACE	6
58	1	3	2	5	0	0	0	0	0	0	2	3	5
59	2	4	1	11	0	0	0	0	0	TRACE	10	1	11
60	2	4	3	4	0	0	0	0	0	TRACE	2	3	4
61	2	2	2	3	0	0	0	0	TRACE	3	2	2	3
62	3	5	4	TRACE	0	0	0	0	0	0	TRACE	1	5
63	0	5	9	2	0	0	0	0	0	0	TRACE	1	9
64	2	5	5	2	0	0	0	0	0	0	2	8	8
65	4	1	2	4	6	0	0	0	0	2	0	0	6
66	3	7	8	10	0	0	0	0	0	0	4	5	10
67	2	3	3	0	10	0	0	0	0	0	2	4	10
68	5	3	0	3	0	0	0	0	0	0	1	4	5
69	1	4	2	3	0	1	0	0	0	3	2	4	4
70	7	4	7	23	0	0	0	0	0	3	3	5	23
71	9	13	6	4	0	0	0	0	0	6	3	3	13
72	2	4	2	TRACE	0	0	0	0	0	2	3	5	5
73	1*	2	15	2	0	0	0	0	0	TRACE	7	4	15
74	1	2	1	2	0	0	0	0	0	0	1	1	2
MEAN													
S. D.													
TOTAL OBS.													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

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U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD
STATION STATION NAME

49-82
YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS	
49						WSW 44NW	65W	48N	40W	NNW*54NW	54NW	62		
50	NNW 62	NNW 57N	*78NNW	56NNW	58			NNW*48NW	38W	NNW 55NNW*49				
51										N *51NW	65NW	*56		
52	NNW*30NE	*38NW	*59W	*72W	NNW*48NW	*69NW	*52WSW	*59SSW	*45NW	45NW	54SW	56	W *72	
53	WNW 54NNW	44W	67W	NNW 57N	47W	NNW 73S	47SSW	44NNW	53NW	46W	NNW 54W	54	NNW 70	
54	WNW 52NNW	60NNW	59NW	50N	49NNW	45S	59W	49NNW	52NW	43W	NNW 60NW	57	NNW 60	
55	NW 63NW	58W	NNW 59NW	49W	NNW 59NW	49WSW	*43WSW	59SSE	48W	NNW 48W	50SW	57	NW 60	
56	WNW*50W	NNW 41W	NNW 60W	45W	NNW 37S	45W	NNW 47SSW	63NW	42NNW	45NW	53NNW	50	SSW 63	
57	NW 51N	47W	NNW 44W	NNW 37N	45W	NNW 51NW	40NNW	41N	35NNW	38N	38NW	49	NW 51	
58	NW 34NNW	44N	32NNW	38W	50NNW	35W	40NNW	35NNW	40W	NNW 48NNW	61NW	45	NNW 61	
59	NNW 46NW	43NW	45NNW	45W	43NNW	42NE	70NW	42NW	49NW	52NW	59NNW	57	NE 70	
60	NNW 46W	NNW 37W	51SW	50W	41W	50SSW	36SSW	53NW	36W	49W	49W	46	SSW 53	
61	NW 43NNW	46NNW	38W	NNW 49W	37NNW	39NW	47NNW	33W	37NW	*38NW	*48NW	53	NW 53	
62	NW 47NW	47W	44W	54W	NNW 39W	55NNW	31W	54W	46W	49W	45NNW	55	NNW 55	
63	NW 52NW	61NNW	48WSW	59W	52SW	62NNW	61S	37NW	34NNW	35NW	44NW	52	SW 62	
64	W 44NNW	46W	53NW	69W	NNW 43NNW	52SE	53NW	66W	76NNW	62NNW	58NNW	52	NW 76	
65	NW 69NNW	53NW	45W	44W	51SE	47W	58W	NNW 39NNW	40W	NNW 53NW	*45NW	42	NW 69	
66	WNW 58NNW	34NW	66W	NNW 52SW	51W	49W	NNW 53NNW	48NNW	36W	54W	45NNW	51	NW 66	
67	W 65NW	54NNW	41NW	72NNW	62N	42N	39NNW	36W	47W	56W	46NW	54	NW 72	
68	NW 42NW	41W	45W	46SSE	48NW	5332/	4127/	4234/	4832/	5032/	4434/	59	34/ 59	
69	29/	5929/	3729/	5332/	5334/	5432/	4028/	6033/	4533/	4433/	5031/	5031/	54	28/ 60
70	32/	5131/	5035/	5033/	4631/	5035/	4533/	4432/	4334/	6332/	5331/	5734/	52	34/ 63
71	30/	4932/	5232/	5633/	5824/	5831/	4233/	4832/	4531/	6934/	5334/	5427/	44	31/ 69
72	33/	4432/	5932*	4817/	4730/	5610/	387/	3733/	3733/	4235/	4033/	4634/	44	32/ 59
73	33/	4335/	3835/	5613/	4033/	4216/	4634/	4228/	5231/	3733/	4927/	5331/	55	35/ 56
74	26/	4233/	5625/	5432/	4128/	5435/	3725/	4032/	4332/	4432/	4032/	5034/	44	33/ 56
75	33/	4631/	5832/	5732/	5219/	5431/	5725/	6633/	4734/	5033/	4632/	6232/	44	25/ 66
76	32/	5434/	5533/	5719/	4232/	6533/	5831/	3832/	4633/	3734/	4433/	5132/	57	32/ 65
77	34/	6232/	6234/	5734/	4431/	4434/	4333/	601/	4133/	6632/	4732/	6633/	58	33/ 66
78	34/	4632/	5033/	4032/	5732/	5134/	587/	4112/	4725/	4433/	4933/	5032/	49	34/ 58
MEAN														
S.D.														
TOTAL OBS.														

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OIA)

3 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

●
2
●

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

49-82

YEAR!

2



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SO

STATION NAME

73-82

YEARS

JAN

MONTH

ALL WEATHER

CLIM

0000-0200

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.5	1.9	2.4	1.6	1.2	.1					9.6	12.3
NNE		.6	.1									.8	6.1
NE	.2	.1										.3	3.0
ENE	.1	.1	.2									.4	5.3
E	.1	.3	.2									.6	5.5
ESE		.3	.9	.1								1.3	8.1
SE	.6	.6	1.0	1.1								3.3	7.9
SSE	.4	1.3	1.3	1.0	.2							4.2	8.1
S	1.4	2.5	1.1	.6	.1							5.7	6.1
SSW	1.4	.3										1.7	2.7
SW	1.1	1.1	.3									2.5	3.9
WSW	.9	2.3	1.0									4.1	4.9
W	4.6	4.3	1.5	.6								11.1	4.6
WNW	3.7	2.6	.5	.5	.1	.3						7.7	5.4
NW	1.6	1.7	1.0	2.2	1.7	1.9	.8	.3				12.0	14.0
NNW	.5	2.6	3.4	4.6	1.9	2.2	.8	.3	.1			16.5	14.2
VARBL													
CALM												18.2	
	17.5	22.3	15.3	13.1	5.7	5.6	1.6	.6	.1			100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.4	3.4	3.5	1.2	.9	.1					11.3	11.6
NNE	.2	.9	.3	.1								1.5	6.1
NE		.5										.5	5.0
ENE	.2	.1	.1	.1								.5	5.8
E	.2	.2										.4	3.5
ESE		.6	.4	.1	.1							1.3	8.0
SE	.2	1.1	.5	1.0								2.8	8.4
SSE	.4	.6	1.4	1.1	.1							3.7	9.0
S	1.7	1.9	.8	.3	.2							4.9	5.8
SSW	1.1	.9	.1									2.0	3.7
SW	1.3	.8	.2									2.3	3.6
WSW	1.8	2.6	.5	.1								5.1	4.5
W	3.4	4.7	1.6	.6								10.4	4.9
WNW	2.8	2.9	1.0	.5	.5	.1						7.8	6.0
NW	1.8	2.3	1.4	1.6	2.4	1.7	.6	.8				12.6	14.6
NNW	.5	1.8	2.3	3.3	2.2	2.5	.4	.2	.1			13.3	15.1
VARBL													
CALM												19.5	
	16.6	23.3	14.1	12.5	6.7	5.2	1.2	1.0	.1			100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.0	2.7	2.6	1.5	.4	.3					10.0	11.9
NNE	.3	.2	1.2	.1								1.8	7.2
NE	.3	.5	.1									1.0	4.9
ENE	.2	.3	.4									1.0	6.0
E	.5	.1	.1	.1								.9	5.5
ESE	.3	.2	.5	.1								1.2	6.9
SE	.2	.8	1.2	.8	.1							3.0	8.6
SSE	.9	1.4	1.1	1.1								4.4	7.0
S	.9	1.1	1.0	.9								3.8	7.0
SSW	.8	.5	.2									1.5	3.7
SW	.8	.5	.2									1.5	4.2
WSW	2.2	1.6	1.0	.3								5.1	5.0
W	4.0	4.8	.8	.1								9.7	4.2
WNW	3.4	1.9	.3	.5	.1	.1						6.5	4.9
NW	2.0	2.7	1.1	4.2	2.3	.9	1.2	.5				14.8	13.6
NNW	.5	2.3	2.3	4.2	3.2	1.8	.4	.2				14.9	14.5
VARBL													
CALM												19.0	
	17.7	21.1	14.1	14.9	7.2	3.2	1.9	.8				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.6	2.6	4.8	1.7	1.0						12.3	12.5
NNE	.2	.3	.2	.1								.9	6.5
NE	.2	.1	.4									.8	6.6
ENE	.1	.6	.1									.9	5.0
E	.8	.9	.3	.4								2.4	6.0
ESE	.6	.5	.5		.1							1.8	5.9
SE	.4	.9	1.4	1.0	.1							3.8	8.6
SSE	.9	1.7	1.9	1.3	.3	.1						6.2	8.5
S	2.7	2.5	1.7	1.3	.3							8.5	6.6
SSW	1.2	1.2	.3									2.7	4.0
SW	.6	.9	.3									1.8	4.3
WSW	1.8	1.1	.4	.3		.2						3.9	5.6
W	4.4	2.3	.4	.3								7.4	4.0
WNW	1.3	.8	.2	.4	.3	.2	.1					3.3	8.3
NW	.5	1.1	1.6	2.0	2.0	1.7	1.5	.5				11.1	17.3
NNW	.6	1.1	3.0	4.1	2.2	3.3	.9	.3				15.5	16.2
VARBL													
CALM												16.9	
	17.0	17.4	15.6	16.1	7.1	6.6	2.5	.9				100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MFAN WIND SPEED
N	1.1	2.9	3.5	5.9	1.4	2.3	.4					17.5	12.6
NNE	.5	1.2	.6	.4	.1							2.9	6.7
NE	.6	.8	.2									1.6	4.4
ENE	.2	.5	.1	.1								1.0	5.4
E	.6	1.0	.8	.1								2.5	5.5
ESE	.6	1.0	.8	.1								2.5	6.1
SE	.6	2.8	1.1	1.2	.8	.2						6.7	8.7
SSE	2.8	3.1	2.6	2.3	.1	.8						11.6	7.9
S	2.0	2.4	3.5	.8	.2							8.9	6.6
SSW	.5	.5	.1									1.2	3.9
SW	.9	1.0	.2	.2								2.3	4.8
WSW	.4	.1	.4	.3	.2							1.5	8.9
W	.4	.4	.3	.2	.1	.1	.1					1.7	9.2
WNW	.2	.1		.5	.3	.4	.2					1.8	16.9
NW	.4	.3	.8	1.1	2.6	2.5	1.0	.5	.2			9.4	20.2
NNW	.2	.8	2.0	5.2	4.7	3.3	2.4	.8				19.4	18.6
VARBL													
CALM												7.6	
	12.4	18.8	17.1	18.4	10.5	9.6	4.1	1.3	.2			100.0	11.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.1	4.6	5.7	2.2	1.3	.2	.2				17.8	12.2
NNE	.6	.5	1.1	.3								2.6	7.3
NE	.5	.2	.4	.2	.1							1.5	7.3
ENE	.3	.5	.1	.1								1.1	5.4
E	1.1	.8	.2									2.0	4.1
ESE	1.4	1.6	.5	.3								3.9	5.2
SE	1.0	2.6	1.0	1.8	.3							6.7	7.9
SSE	.6	2.6	1.8	1.3	.4	.6						7.4	9.8
S	2.2	3.2	2.2	.4	.1							8.1	5.6
SSW	1.0	.6	.1		.1							1.8	4.4
SW	.4	.3		.1	.1							1.0	6.1
WSW	.3	.2	.3	.5	.2							1.6	9.9
W	.4	.9	.5	.2	.1	.2						2.4	8.5
WNW	.4	.3	.5	.5	.1	.4	.2					2.6	13.2
NW		.6	1.1	2.6	.9	1.5	1.3					8.0	17.3
NNW	.4	1.0	3.1	5.3	3.8	3.5	1.6	.3		.1		19.1	17.1
VARBL													
CALM												12.5	
	11.3	19.1	17.6	19.5	8.4	7.6	3.3	.5		.1		100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

930

1
2GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MACPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625

ELLSWORTH AFB SD

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.7	3.9	4.4	2.2	.9	.1					13.7	12.1
NNE	.4	.3	1.0	.2								1.9	7.1
NE	.1	.5	.2									.9	6.4
ENE	.1	.1		.1								.3	7.0
E	.2	.3	.1									.6	4.2
ESE	.3	.4	.5	.1								1.4	5.9
SE	1.1	.6	1.0	1.3	.1							4.1	8.1
SSE	1.1	1.5	1.2	1.5	.6	.3						6.2	9.3
S	2.0	2.9	.6	.4	.2	.2						6.5	5.9
SSW	.8	1.0										1.7	3.9
SW	.9	.9	.2	.2	.1							2.3	5.7
WSW	.9	1.1	.3	.3	.1	.1						2.7	7.1
W	2.9	2.0	.5	.6	.3							6.5	5.6
WNW	2.2	2.3	.3	.4	.1	.3						5.6	6.2
NW	1.1	2.8	2.2	1.2	1.7	2.4	1.2					12.5	14.0
NNW	.4	2.4	3.3	4.4	3.0	2.2	.8	.3				16.8	14.8
VARBL													
CALM												16.5	
	14.8	20.9	15.4	15.3	8.5	6.3	2.0	.3				100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.4	2.4	2.5	2.9	2.0	.6	.8					11.6	12.9
NNE	.2	1.2	1.1									2.5	6.2
NE		.3	.3									.6	6.7
ENE	.1	.4	.1									.6	5.2
E	.1	.3										.4	4.8
ESE	.1		.3									.4	6.8
SE	.5	.5	1.6	1.0	.1							3.8	8.5
SSE	.4	1.3	1.2	1.5	.3	.8						5.5	11.0
S	1.7	2.0	1.3	.6	.5	.1						6.3	7.2
SSW	1.1	.6	.1									1.8	3.5
SW	.9	.8		.1								1.7	4.3
WSW	1.4	1.7		.4								3.5	5.1
W	4.8	4.5	1.3	.5	.3							11.5	4.9
WNW	2.5	1.8	.4	.9	.4	.3		.1				6.5	7.6
NW	1.6	3.2	1.9	2.0	1.8	1.3	.8					12.7	11.8
NNW	.4	1.7	2.4	4.1	1.8	2.2	.9	.4				13.9	15.3
VARBL													
CALM												16.6	
	16.3	22.9	14.5	14.1	7.4	5.3	2.4	.5				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.1	3.1	4.0	1.7	1.1	.3	.0				13.0	12.3
NNE	.3	.7	.7	.2	.0							1.9	6.7
NE	.3	.4	.2	.0	.0							.9	5.7
ENE	.2	.3	.1	.1								.7	5.5
E	.5	.5	.2	.1								1.2	5.1
ESE	.4	.6	.6	.1	.0							1.7	6.3
SE	.6	1.2	1.1	1.1	.2	.0						4.3	8.3
SSE	.9	1.7	1.6	1.4	.3	.3						6.2	8.8
S	1.8	2.3	1.5	.7	.2	.0						6.6	6.3
SSW	1.0	.7	.1		.0							1.8	3.7
SW	.8	.8	.2	.1	.0							1.9	4.5
WSW	1.2	1.3	.5	.3	.1	.0						3.4	5.7
W	3.1	3.0	.9	.4	.1	.0	.0					7.6	5.0
WNW	2.1	1.6	.4	.6	.3	.3	.1	.0				5.2	7.1
NW	1.1	1.8	1.5	2.1	1.9	1.7	1.0	.3	.0			11.6	15.0
NNW	.5	1.7	2.7	4.4	2.8	2.6	1.0	.4	.0	.0		16.2	15.9
VARBL													
CALM												15.8	
	15.5	20.7	15.9	15.9	7.7	6.2	2.4	.7	.1	.0		100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	3.0	2.5	.4	.1						8.9	9.1
NNE		.5	.4	.4								1.2	8.3
NE	.6	.5	.5	.1								1.7	5.4
ENE		.6	.2									.8	5.9
E	.6	.2	.2									1.1	3.7
ESE	.1	.5	.7	.5								1.8	8.6
SE		.8	.7	.8	.1							2.5	9.2
SSE	.4	.9	2.0	1.9	.8	.1						6.2	10.9
S	1.4	1.1	1.7	.7	.2		.2	.1				5.4	8.8
SSW	1.1	.7	.2	.2								2.2	4.7
SW	.9	.7										1.7	3.4
WSW	1.7	1.9	.5	.1								4.1	4.2
W	6.3	4.3	2.0	.5	.2							13.3	4.6
WNW	2.7	3.6	1.2	.4	.5		.1					8.4	6.0
NW	1.9	1.7	1.4	2.0	2.5	1.5	.9	.1				12.1	14.1
NNW	.8	2.0	3.3	3.9	2.5	1.2	.6					14.3	13.1
VARBL													
CALM												14.4	
	19.1	22.2	18.0	14.0	7.2	3.0	1.9	.2				100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

845

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625

ELLSWORTH AFB SD

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.8	2.7	1.1	.7	.5						8.4	9.2
NNE	.2	.6	.5	.1								1.4	6.3
NE	.1	.1	1.2									1.4	7.1
ENE		.5	.5									.9	6.4
E	.4	.1	.6	.1								1.2	6.8
ESE	.6	.4	.5	.6								2.0	6.8
SE	.4	1.3	.7	1.2								3.5	8.4
SSE	.5	.5	1.3	.9	.8	.2						4.3	11.1
S	1.3	1.5	.8	1.1	.1	.5		.1				5.4	8.9
SSW	.5	.6										1.1	3.2
SW	.7	.8	.1									1.7	3.4
WSW	1.7	2.0	.6	.1								4.4	4.5
W	5.9	5.3	1.7	.6	.1							13.6	4.5
WNW	2.7	2.5	1.2	.4	.1	.1	.1					7.1	5.7
NW	2.4	2.0	1.5	2.5	1.3	.6	.5	.1				10.9	10.9
NNW	.9	1.4	3.1	3.8	3.8	2.6	.8	.1				16.5	15.1
VARBL													
CALM												16.2	
	18.8	22.5	16.9	12.4	7.0	4.5	1.4	.4				120.0	7.5

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.9	1.9	1.5	.9	.7						7.8	10.6
NNE	.1	.2	.7	.1								1.2	7.3
NE	.1	.5	.2									.8	5.1
ENE		.6	.8	.1								1.5	7.2
E	.5	.8	.4	.5								2.1	6.6
ESE	.4	.8	.4	.4	.1							2.0	7.4
SE	.2	1.5	.4	.4								2.5	6.1
SSE	.9	1.2	1.4	1.9	.5	.1						6.0	9.3
S	.5	1.1	1.5	.6	.1	.5						4.3	9.4
SSW	.7	.4	.2									1.3	4.0
SW	.7	1.2	.5									2.4	4.6
WSW	2.2	2.8	.5	.1								5.7	4.1
W	4.5	5.7	.9	.1	.1							11.3	4.2
WNW	2.4	2.8	.6	.7		.2						6.7	5.8
NW	1.8	1.5	2.0	2.6	1.4	.8	.5	.5				11.1	12.8
NNW	.4	1.2	2.5	4.4	3.2	3.3	1.2					16.1	16.2
VARBL													
CALM												17.1	
	16.2	24.2	14.9	13.4	6.4	5.7	1.7	.5				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.4	2.6	3.3	1.1	.9	.1					10.9	11.6
NNE	.1	.7	.6	.1								1.5	6.7
NE	.2		.6									.8	6.3
ENE	.1	.2	.1									.5	5.3
E	1.2	.9	.6	.4								3.1	5.7
ESE	.9	.8	.5	.2	.1							2.6	6.0
SE	.9	.9	1.2	.6	.4							4.0	7.7
SSE	1.3	1.3	2.5	2.1	1.4	.2						8.4	10.3
S	1.5	2.4	1.3	.6	.1	.1						6.0	6.3
SSW	1.1	.4	.2									1.7	3.6
SW	.9	.8	.2									2.0	4.1
WSW	1.5	1.3	.4									3.2	4.1
W	1.4	2.0	.2		.1							3.8	4.3
WNW	.6	.4	.6	.5	.1	.2	.2					2.6	11.5
NW	.9	.8	1.8	2.8	1.5	3.0	.8	.6				12.3	16.7
NNW	.2	1.8	2.7	4.5	5.0	4.1	1.9	.6				20.8	17.6
VARBL													
CALM												15.7	
	13.6	17.2	15.6	15.1	9.8	8.6	3.1	1.2				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS

645

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEAR

FEB
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.2	4.3	6.4	1.9	1.2	.4					17.1	12.4
NNE	.5	1.1	.7	.4								2.6	6.9
NE	.5	1.1	.5	.2								2.2	6.0
ENE	.7	.4	.1	.1								1.3	4.5
E	1.3	2.2	.8	.4								4.7	5.3
ESE	.7	.6	.2		.2							1.8	6.3
SE	1.2	1.7	1.2	1.7	.4							6.0	8.3
SSE	1.1	3.1	3.2	4.3	.7	1.1						13.4	10.6
S	1.2	2.8	.8	1.1	.1	.2						6.3	7.2
SSW	.8	.5	.1									1.4	3.5
SW	.1	.1										.2	4.9
WSW				.2								.2	15.0
W	.1	.1	.1	.1	.1							.6	10.2
WNW	.5		.4	.2		.5	.1					1.7	13.0
NW	.4	.1	.9	1.9	2.4	2.5	.7	.7				9.6	19.6
NNW	.4	1.8	2.0	5.0	5.6	5.2	2.0	.7				22.6	18.1
VARBL													
CALM												8.3	
	10.2	17.7	15.4	21.9	11.3	10.6	3.2	1.4				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (L.S.T.)

COLDIT/CLY

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	15 - 17	18 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.8	5.8	7.7	2.4	.8	.1						19.1	12.1
NNE	.8	2.0	2.1	1.1									6.0	7.1
NE	.6	.8	.9	.1									2.5	6.0
ENE	.1	.7	.2										1.1	4.6
E	.7	1.5	1.7	.1									4.0	6.0
ESE	.4	1.7	1.2	.5									3.7	7.0
SE	1.1	1.9	2.8	1.9	.5								8.2	8.8
SSE	1.1	2.6	2.8	1.8	.9	.2							9.5	9.3
S	2.2	2.5	.9	.5	.1	.1							6.4	5.7
SSW	.6	.7	.1										1.4	3.5
SW		.1	.2	.1									.5	8.0
WSW	.1	.1	.2	.2	.1								.8	10.3
W	.8	.1	.2	.2	.1				.1				1.7	8.4
WNW	.1	.2	.2	.4	.7	.2	.1						2.0	14.9
NW	.4	.2	.6	1.7	2.4	1.4	1.2	.1					7.9	18.8
NNW	.4	.9	1.7	3.9	3.4	3.7	1.2	.5	.1				15.7	18.2
VARBL														
CALM													9.6	
	9.9	18.0	21.9	20.1	10.6	6.5	2.6	.7	.1				100.0	10.4

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

1900-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.4	1.9	3.8	3.7	1.4	.4						11.5	11.1
NNE	.2	1.5	.6	.5	.1							3.0	7.1
NE	.2	.6	.5									1.3	5.9
ENE	.7	.6	.1									1.4	3.8
E	.1	.8	1.2									2.1	6.6
ESE	.4	1.1	1.3	.4								3.1	6.7
SE	.7	2.0	1.7	.8	.5							5.7	8.0
SSE	1.2	1.4	1.1	.8	.9	.1						5.6	9.1
S	1.8	2.0	1.3	.5								5.6	5.4
SSW	1.3	.8	.1									2.2	3.3
SW	1.2	1.2	.1									2.5	3.8
WSW	1.9	.8	.5	.1								3.3	4.3
W	3.1	1.9	.5	.2								5.7	4.2
WNW	2.5	2.5	.8	.4	.1	.4						6.6	6.2
NW	.9	1.4	2.1	2.4	1.3	1.1	.6					9.8	12.9
NNW	.5	1.4	4.3	3.2	2.4	1.2	.5	.1				13.5	13.6
VARBL													
CALM												17.3	
	17.0	22.0	19.9	12.9	6.7	3.1	1.1	.1				100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 646

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

YEARS

FEB

MONTH

ALL WEATHER

CLASS

2100-2300

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.8	2.8	3.0	.7	.5						8.5	11.2
NNE	.1	.5	.8	.4								1.8	7.7
NE		.4	.1									.5	6.5
ENE	.4	.5	.5	.1								1.4	6.0
E	.1	.7	.2									1.1	5.3
ESE	.1	.6	.9	.4								2.0	7.6
SE	.5	.8	.9	1.3								3.5	8.8
SSE	.7	1.1	1.7	2.0	.9	.1						6.5	11.0
S	1.5	2.7	1.4	.6		.1	.1					6.5	6.4
SSW	1.1	.9	.5	.1								2.6	4.9
SW	.8	1.1	.4									2.2	4.0
WSW	1.7	1.5	.6	.1								3.9	4.5
W	4.0	5.4	1.4	.4	.1							11.3	4.8
WNW	3.0	2.6	.8	.7	.2	.4						7.7	6.3
NW	1.7	2.6	1.5	2.7	2.4	1.3	.2	.1				12.5	12.2
NNW	.5	1.7	1.9	2.8	1.9	1.4	.4					10.5	14.0
VARBL													
CALM												17.4	
	16.8	23.9	16.5	14.5	6.3	3.8	.7	.1				100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	3.4	3.6	1.2	.6	.1					11.5	11.2
NNE	.3	.9	.8	.4	.0							2.3	7.1
NE	.3	.5	.6	.1								1.4	6.0
ENE	.3	.5	.3	.0								1.1	5.4
E	.6	.9	.7	.2								2.4	5.8
ESE	.4	.8	.7	.4	.1							2.4	7.0
SE	.6	1.4	1.2	1.1	.2							4.3	8.3
SSE	.9	1.5	1.9	2.0	.9	.3						7.5	10.2
S	1.4	2.0	1.2	.7	.1	.2	.0	.0				5.7	7.1
SSW	.9	.6	.2	.0								1.7	3.9
SW	.7	.8	.2	.0								1.6	4.1
WSW	1.3	1.3	.4	.1	.0							3.2	4.6
W	3.3	3.1	.9	.3	.1			.0				7.7	4.7
WNW	1.8	1.8	.7	.4	.2	.3	.1					5.4	7.0
NW	1.3	1.3	1.5	2.3	1.9	1.5	.7	.3				10.8	14.5
NNW	.5	1.5	2.7	3.9	3.5	2.8	1.1	.3	.0			16.3	16.1
VARBL													
CALM												14.5	
	15.2	21.0	17.4	15.5	8.2	5.7	2.0	.6	.0			100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.9	2.0	2.6	.8	.2	.1	.3				8.3	11.9
NNE	.2		.6	.3	.2							1.4	9.8
NE		.1		.1								.2	11.0
ENE		.3										.3	4.0
E	.6	1.0	.8	.2								2.6	5.8
ESE	.5	.8	1.4	.3		.1						3.1	7.4
SE	1.1	1.5	1.6	1.2	.2	.1	.1					5.8	8.5
SSE	1.1	3.0	2.3	2.3	.6							9.2	8.5
S	1.2	4.1	2.4	1.4	.8							9.8	7.7
SSW	.9	1.0	1.2	.1								3.1	5.9
SW	.8	1.3	.2	.2								2.5	5.0
WSW	1.7	2.4	.8	.1	.1		.1					5.2	5.4
W	2.7	3.2	1.5	.2	.1							7.7	5.1
WNW	1.7	2.5	1.1	.2	.1	.2						5.8	5.9
NW	.3	1.6	1.7	1.5	.2	.5	.2	.5				6.7	13.2
NNW	.6	1.6	3.3	4.3	3.0	1.6	.8	.5				15.8	14.9
VARBL													
CALM												12.5	
	13.8	26.2	20.9	15.1	6.1	2.8	1.3	1.4				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

YEARS

MAR

MONTH

ALL WEATHER

CLASS

0300-0500

HOURL (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.3	1.7	2.4	2.2	1.5	.3	.3	.1				8.8	12.1
NNE	.2	.4	.3	.3								1.3	7.0
NE		.4	.1									.5	5.6
ENE		.1	.4									.5	7.0
E	.5	.3	.6	.1								1.6	5.4
ESE	.1	.3	1.2	.3								1.9	8.4
SE	.8	1.8	1.6	.9	.3	.2	.1					5.7	8.7
SSE	.8	1.8	2.0	2.7	.8	.1						8.2	9.7
S	1.2	2.5	2.4	.5	.5	.2						7.3	7.6
SSW	.3	.5	.1									1.0	4.2
SW	.5	.9	.4									1.8	4.9
WSW	1.7	3.3	.5	.2			.3					6.1	6.1
W	3.4	4.2	1.6	.2								9.5	4.6
WNW	1.9	2.3	.3	.5	.2	.1						5.4	5.8
NW	.9	1.6	1.9	1.6	.8	.5	1.1	.2				8.6	13.2
NNW	.2	1.2	3.5	5.8	2.0	1.9	1.4	.4				16.6	15.6
VARBL													
CALM												15.2	
	12.9	23.4	19.6	15.4	6.1	3.4	3.2	.8				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	3.2	3.2	1.6	.5		.2				11.2	11.9
NNE	.3	.8	1.1	.1								2.3	6.7
NE	.1	.2	.3									.6	6.8
ENE	.1	.1	.1									.3	4.7
E	.3	.3	.6									1.3	6.2
ESE	.2	.6	.9	.5								2.3	8.1
SE	.4	1.0	1.1	1.4	.4							4.3	9.7
SSE	.9	1.9	3.2	2.3	.9	.1						9.3	9.4
S	1.5	1.8	1.9	1.4	.4	.3						7.4	8.4
SSW	1.0	.5	.3									1.8	4.1
SW	.8	.4	.5									1.7	4.3
WSW	1.9	2.9	.3		.1	.2						5.5	5.2
W	2.0	4.1	1.5	.1								7.8	5.3
WNW	1.9	1.9	.9	.6		.1	.2					5.7	6.5
NW	.9	2.3	1.5	.9	1.4	2.4	.8	.2				10.2	14.9
NNW	.6	.4	1.3	5.3	1.8	2.4	1.4	.9				14.1	17.9
VARBL													
CALM												14.2	
	13.5	21.3	18.8	15.8	6.7	6.0	2.4	1.3				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

0900-1100
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.8	2.5	3.2	6.3	2.3	.9		.3				16.2	12.4
NNE	.6	.9	.9	1.2								3.5	7.9
NE	.1	.3	.2	.1								.8	6.1
ENE	.2	.4	.1									.8	4.3
E	.5	.5	.5	.1								1.7	5.9
ESE	.4	.9	.9	.9	.2							3.2	8.5
SE	1.2	1.9	2.3	1.2	.3							6.9	7.5
SSE	.3	2.0	5.1	4.4	1.3	.8	.1					14.0	11.4
S	1.1	2.4	2.2	1.3	1.4	1.0	.1					9.4	10.8
SSW	.3	.3	.4		.1							1.2	6.1
SW	.4	.4		.2								1.1	5.5
WSW	.5	.2	.4	.4		.1						1.7	8.4
W	.4	.4	.3	.3	.3	.1						1.9	9.6
WNW	.3	.2	.3	.8	.1	.5	.1	.1				2.5	14.5
NW	.4	.4	1.2	2.0	1.7	2.2	1.1	.8				9.8	19.1
NNW	.3	.9	2.6	4.6	4.9	3.2	1.1	.9				18.5	17.8
VARBL													
CALM												6.9	
	8.1	14.7	20.5	23.9	12.7	8.7	2.5	2.0				100.0	11.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLIM

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	3.7	6.2	3.4	1.0		.2				17.0	13.2
NNE	.2	1.2	1.3	1.0	.1							3.8	8.5
NE	.6	1.3	.5	.1								2.6	5.6
ENE	.2	.6	.4									1.3	5.8
E	.3	1.2	.1	.2								1.8	5.6
ESE	.4	1.4	2.0	1.0	.2	.2						5.3	8.9
SE	.5	.8	2.3	2.5	.9							6.9	10.5
SSE	1.1	1.2	2.4	4.4	2.5	1.0	.1					12.6	12.8
S	1.0	1.5	1.2	2.2	1.1	1.4	.3					8.6	13.0
SSW	.2	.1		.3								.6	8.3
SW	.1	.1	.5	.1	.3							1.2	10.9
WSW			.2	.5	.1	.2						1.1	15.5
W	.2	.1	.3	.6	.4	.1						1.8	13.1
WNW	.1	.1	.2	.6	.2	.6	.2	.1				2.3	18.3
NW	.2	.9	.6	1.2	1.8	1.4	1.1	.6				7.8	19.3
NNW	.4	.9	1.7	5.5	7.0	3.7	1.6	.9				21.6	18.5
VARBL													
CALM												3.8	
	6.7	12.8	17.5	26.5	18.1	9.6	3.3	1.8				100.0	13.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	.5	1.3	5.1	6.9	3.0	1.0	.2	.3				18.3
NNE	.1	1.0	1.6	1.2	.2							4.1
NE	.4	.9	.8	.1								2.2
ENE	.4	1.6	.5	.1								2.7
E	.9	1.6	.8	.6								3.9
ESE	.4	1.2	2.3	1.1	.1							5.1
SE	.6	.8	1.6	2.8	.3	.1						6.2
SSE	.8	1.6	3.0	4.7	.8	.3						11.2
S	.9	1.3	1.1	2.0	1.1	.6						7.0
SSW	.1	.5	.3	.5	.1	.1						1.7
SW	.4	.1	.5	.2								1.3
WSW	.1	.3	.5	.6	.2							1.8
W	.5	.3	.4	.5	.4							2.3
WNW	.1	.3	.3	.5	.3							1.6
NW	.1	.6	.2	1.8	1.3	1.8	.5	.3				6.8
NNW	.1	.5	1.9	5.2	5.3	4.7	1.2	.6				19.6
VARBL												
CALM												4.4
	6.6	14.0	21.0	29.0	13.1	8.7	1.9	1.3				100.0

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.3	3.5	4.7	1.3	.6	.8	.3				13.9	13.2
NNE	.3	1.3	1.2	.8								3.5	7.7
NE	.3	1.1	1.1	.2								2.7	6.8
ENE	.3	1.6	.5									2.5	5.4
E	.5	1.8	1.4									3.8	5.8
ESE	.8	1.4	1.7	1.6								5.5	8.2
SE	1.5	1.6	3.0	1.2	.4							7.7	7.9
SSE	1.3	2.3	2.6	1.8	.4							8.4	8.1
S	.5	1.2	2.7	1.3	.6							6.3	9.0
SSW	.9	.9	.4									2.2	4.8
SW	1.1	.6	.3									2.0	3.8
WSW	.5	.9	.3	.1								1.8	4.9
W	1.1	1.3	.5		.1							3.0	5.3
WNW	.4	1.8	.4	.4								3.1	6.4
NW	.8	1.5	2.8	1.4	1.1	.6	.3	.1	.2			8.8	12.5
NNW	.1	1.7	3.0	4.8	3.1	1.3	.6	.3				15.1	14.9
VARBL													
CALM												9.7	
	10.8	23.2	25.6	18.4	7.1	2.6	1.7	.8	.2			100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625 ELLSWORTH AFB SD 73-82 MAR
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
2100-2300
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.8	3.0	2.5	1.0	.3	.1					9.2	10.9
NNE	.1	.4	.1	.3								1.0	7.7
NE	.4	.2	.5	.1								1.3	5.8
ENE	.5	.5	.2									1.3	4.3
E	.8	.5	1.0	.2								2.5	6.0
ESE	.6	.8	.6	.6								2.7	7.2
SE	.5	1.9	1.7	1.4	.2	.2						6.0	8.8
SSE	2.0	2.7	3.2	1.6	.4							10.0	7.4
S	1.9	3.2	3.0	1.1	.2							9.5	6.8
SSW	1.0	.8	.1									1.8	3.7
SW	.5	1.1	.2	.2								2.0	5.2
WSW	1.8	2.2	.5	.2								4.7	4.6
W	2.5	2.5	.4	.3								5.7	4.3
WNW	1.3	2.0	.5	.3								4.2	5.1
NW	.5	1.5	3.0	2.5	1.0	.2	.2	.3				9.9	12.6
NNW	.4	1.3	4.2	4.2	2.4	2.3	.2	.9				15.8	14.9
VARBL													
CALM												12.4	
	15.6	23.4	22.5	15.6	5.2	3.7	.5	1.2				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.5	1.9	3.3	4.3	1.9	.6	.2	.2				12.9	12.5
NNE	.3	.7	.9	.6	.1							2.6	8.2
NE	.3	.6	.4	.1								1.4	6.2
ENE	.2	.7	.3	.0								1.2	5.2
E	.6	.9	.7	.2								2.4	5.9
ESE	.4	.9	1.4	.8	.1	.0						3.6	8.2
SE	.8	1.4	1.9	1.6	.4	.1	.0					6.2	8.9
SSE	1.0	2.1	3.0	3.0	1.0	.3	.0					10.4	10.0
S	1.2	2.2	2.1	1.4	.8	.4	.1					8.2	9.3
SSW	.6	.6	.4	.1	.0	.0						1.7	5.8
SW	.6	.6	.3	.1	.0							1.7	5.5
WSW	1.0	1.5	.5	.3	.1	.1	.1					3.5	6.3
W	1.6	2.0	.8	.3	.2	.0						5.0	5.8
WNW	1.0	1.4	.5	.5	.1	.2	.1	.0				3.8	7.8
NW	.5	1.3	1.6	1.6	1.2	1.3	.7	.4	.0			8.6	15.4
NNW	.4	1.1	2.7	5.0	3.7	2.6	1.0	.7				17.1	16.8
VARBL													
CALM												9.9	
	11.0	19.9	20.8	19.9	9.4	5.7	2.1	1.3	.0			100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER

0000-0200
HOURS (L.S.T.)

CLAS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	2.1	2.1	.4							5.8	10.5
NNE	.2	.3	.6	.1								1.2	7.2
NE		.6	.3									.9	5.9
ENE	.3	.2	.7									1.2	6.4
E	.8	.6	.4	.2	.3							2.3	7.1
ESE	.4	.6	1.1	.6								2.7	7.5
SE	.7	2.0	1.0	1.0	.2							4.9	7.6
SSE	.4	1.8	2.6	3.6	1.0							9.3	10.5
S	1.2	2.6	2.1	2.9	.4							9.2	8.5
SSW	1.2	1.4	.7	.1								3.4	4.9
SW	.8	1.2	.2									2.2	4.3
WSW	1.3	2.6	.3		.1							4.3	4.6
W	4.0	5.1	1.8									10.9	4.4
WNW	1.7	2.2	1.1	.7		.1	.1					5.9	6.4
NW	.8	1.7	3.1	2.3	2.1	.9	.4					11.3	12.5
NNW	.2	1.8	2.4	3.9	3.1	1.1	.2					12.8	13.6
VARBL													
CALM												11.6	
	14.2	25.6	20.6	17.4	7.8	2.1	.8					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLIM

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.9	3.0	3.8	.1		.2					8.4	10.5
NNE	.3	.1	.6									1.0	6.6
NE	.1	.8	.4	.1								1.4	6.6
ENE	.1	.7	.4	.1								1.3	7.0
E	.1	.4	.6	.3								1.4	7.8
ESE	.4	.4	.9	.1	.1							2.0	7.5
SE	.6	1.3	1.0	.4	.2							3.6	7.4
SSE	.7	1.9	2.1	3.7	.9							9.2	10.2
S	1.1	1.6	1.8	2.1	.4	.1						7.1	9.0
SSW	.4	1.1		.1								1.7	4.9
SW	1.2	.8	.3	.1								2.4	4.3
WSW	1.6	2.8	.6									4.9	4.4
W	4.0	3.4	1.1		.1							8.7	4.1
WNW	3.3	2.4	1.8	.3		.2						8.1	5.5
NW	1.0	1.9	1.7	1.7	1.1	1.7	.9	.1				10.0	14.2
NNW	.2	1.9	2.9	4.9	2.9	1.6	.1					14.4	13.7
VARBL													
CALM												14.2	
	15.7	22.4	19.1	17.8	5.9	3.6	1.2	.1				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	4.9	4.8	.9	.4	.1					14.4	10.4
NNE	.1	.9	.4	.3								1.8	7.1
NE	.1	.4	.3	.4								1.3	8.0
ENE	.1	.1	.1	.1	.1							.6	9.0
E	.1	.6	.6	.2								1.4	7.3
ESE	.1	.4	.2	.3	.2							1.3	9.8
SE	.4	1.0	1.4	1.1	.3							4.3	9.1
SSE	1.1	1.2	1.3	3.0	.8							7.4	10.2
S	1.7	2.1	2.4	2.3	1.9	.3						10.8	10.2
SSW	1.0	1.2	.1		.1							2.4	4.3
SW	1.6	1.0	.2									2.8	3.7
WSW	1.7	1.6	.4		.1							3.8	4.5
W	2.3	1.7	1.2									5.2	4.4
WNW	.9	1.7	1.1	.7	.1	.1						4.6	7.4
NW	.6	1.4	1.2	2.3	1.9	1.6	1.1	.2				10.3	16.1
NNW	1.1	1.8	3.1	5.3	4.3	1.3	.7	.1				17.8	14.2
VARBL													
CALM												9.7	
	14.0	19.3	19.2	21.0	10.8	3.8	1.9	.3				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS

900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.1	5.3	6.2	3.0	.4	.1					18.0	11.8
NNE	.9	1.4	.7	.8	.1							3.9	7.1
NE	.6	.6	.3	.1								1.6	4.9
ENE	.3	.4	.4	.3								1.6	7.9
E	.7	1.0	.9	.3								2.9	6.5
ESE	.4	1.2	.4	.8	.2	.1	.1					3.3	9.0
SE	.4	1.8	2.8	1.1	.7	.1						6.9	9.2
SSE	.6	2.3	2.9	4.8	1.6	.6						12.7	11.5
S	1.0	2.3	1.1	2.9	1.6	1.4						10.3	12.2
SSW	.4	.3	.2	.3								1.3	6.7
SW		.3	.2	.1								.7	7.5
WSW	.1	.2	.3									.7	6.5
W	.1	.1		.2								.4	8.0
WNW	.2		.3	.1	.1	.2	.3	.1				1.4	18.4
NW	.2	.3	.9	2.2	1.9	2.7	1.3	.3				9.9	19.5
NNW	.6	1.0	3.1	6.1	5.4	3.4	1.1	.2				21.0	16.5
VARBL													
CALM												3.4	
	7.3	15.6	20.0	26.4	14.6	9.0	3.0	.7				100.0	12.3

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLASS

MOUSE (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.1	4.7	7.9	1.9	.6						16.7	12.2
NNE	.1	1.8	1.6	.8	.							4.3	7.8
NE	.8	1.2	.8	.8								3.6	6.3
ENE	.4	.8	.6	.4								2.2	6.6
E	.7	1.4	1.9	1.1	.2							5.2	8.2
ESE	.2	1.3	1.7	.9	.2							4.3	8.7
SE	.2	1.4	2.4	2.8	1.1	.1						8.1	11.1
SSE	.3	1.0	1.2	3.1	1.9	.8						8.3	13.2
S	.7	.8	1.8	3.4	1.9	1.3	.2					10.1	14.2
SSW	.2	.1	.6	.4		.1						1.4	10.3
SW		.1	.3	.1	.1							.7	10.7
WSW	.3	.2	.2	.8	.3							1.9	10.9
W	.1	.1	.4	.7	.1							1.4	10.8
WNW	.2	.4	.2	.1	.3	.3	.3					2.0	15.2
NW	.2	.4	.9	1.7	2.9	3.6	1.0	.3				11.0	19.9
NNW	.2	.8	1.2	5.3	4.3	3.0	1.1	.1	.2			16.3	17.9
VARBL													
CALM												2.3	
	5.3	13.1	20.4	30.3	15.3	9.8	2.7	.4	.2			100.0	13.0

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625

ELLSWORTH AFB SD

73-82

APR

STATION

STATION NAME

YEAR

MONTH

ALL WEATHER

1500-1700

CLAM

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.8	3.4	7.2	1.6	.6						15.3	11.9
NNE	.3	1.3	1.9	1.2	.1							4.9	8.5
NE	.8	1.2	.9	.9								3.8	7.3
ENE	.1	1.3	2.1	1.0								4.6	8.3
E	.6	2.1	2.1	1.1	.1							6.0	7.9
ESE	.3	1.0	1.2	1.1	.1	.1						3.9	8.8
SE	.6	1.2	2.4	2.6	1.2	.4	.1					8.6	11.9
SSE	.3	1.0	1.9	2.3	1.8	.2	.1					7.7	12.5
S	.6	.7	2.0	2.7	2.2	.3						8.4	12.8
SSW	.2	.1	.2	.3								.9	8.1
SW	.2	.1	.4	.8	.3							1.9	11.4
WSW	.2	.1	.4	.3	.2	.1						1.4	11.8
W	.3	.3	.4	.2								1.3	7.1
WNW	.1		.3	.6	.7	.3	.3					2.3	18.1
NW	.2	.7	.4	2.0	1.8	3.0	.7	.6	.1			9.4	20.0
NNW	.8	.8	1.8	5.2	5.1	2.8	.7	.1				17.2	16.2
VARBL													
CALM												2.3	
	6.4	13.8	22.1	29.6	15.2	7.9	1.9	.7	.1			100.0	12.4

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEAR

APR
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.0	3.3	4.0	.8	.1						10.7	10.4
NNE	.4	1.6	1.9	1.4								5.3	8.3
NE	.7	1.3	1.4	.7								4.1	7.0
ENE	.9	1.8	1.1	.2								4.0	5.9
E	.4	2.8	3.1	1.8	.1							8.2	8.4
ESE	.8	.9	1.7	1.3	.4							5.1	8.9
SE	.8	1.8	2.0	1.9	1.2	.2						7.9	10.2
SSE	.4	1.9	1.9	2.9	.1							7.2	9.6
S	1.0	2.1	1.8	1.0	.1	.1						6.1	7.5
SSW	.3	.6	.2	.1								1.2	5.3
SW	.6	.3	.2									1.1	3.6
WSW	.2	.3	.1	.2								.9	6.9
W	.2	.3	.7				.1					1.3	8.1
WNW	.4	1.3	1.1	.7		.1	.1					3.8	8.3
NW	.2	1.3	2.8	3.1	1.6	1.0	.3	.1				10.5	13.7
NNW		1.4	3.0	4.2	3.6	1.3	.2	.1				13.9	14.3
VARBL													
CALM												8.6	
	7.9	21.8	26.4	23.6	7.9	2.9	.8	.2				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.1	2.4	1.9	.4	.1						6.8	9.5
NNE	.1	.8	.8	.7								2.3	8.5
NE	.1	.9	.3									1.3	5.3
ENE	.2	1.0	.4	.2								1.9	6.6
E	.3	1.4	.7	.2	.3							3.0	7.5
ESE	.6	.9	1.2	1.1	.1							3.9	8.4
SE	.6	1.0	1.4	1.9	.9							5.8	10.7
SSE	.9	1.8	2.7	2.2	.2							7.8	8.7
S	2.0	3.9	3.1	1.0	.4							10.4	6.8
SSW	1.6	1.2	.3									3.1	3.8
SW	1.2	1.1	.1									2.4	3.4
WSW	1.1	2.1	.2	.2								3.7	4.5
W	2.4	4.4	.7	.1		.1						7.8	4.8
WNW	.9	2.0	1.0	.4		.3						4.7	7.0
NW	.8	2.0	2.2	1.7	2.7	1.0						10.3	12.4
NNW	.3	1.6	3.7	2.8	3.6	.8	.6					13.2	13.6
VARBL													
CALM												11.6	
	13.9	27.2	21.3	14.4	8.7	2.3	.6					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLIM

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.5	3.7	4.7	1.1	.3	.1					12.0	11.2
NNE	.3	1.0	1.0	.7	.0							3.1	7.9
NE	.4	.9	.6	.4								2.3	6.6
ENE	.3	.8	.7	.3	.0							2.2	7.1
E	.5	1.3	1.3	.7	.1							3.8	7.8
ESE	.4	.8	1.1	.8	.2	.0	.0					3.3	8.6
SE	.5	1.4	1.8	1.6	.7	.1	.0					6.3	10.0
SSE	.6	1.6	2.1	3.2	1.0	.2	.0					8.7	10.9
S	1.2	2.0	2.0	2.3	1.1	.5	.0					9.1	10.3
SSW	.7	.8	.3	.2	.0	.0						1.9	5.5
SW	.7	.6	.3	.1	.1							1.8	5.4
WSW	.8	1.2	.3	.2	.1	.0						2.7	5.7
W	1.7	1.9	.8	.2	.0	.0	.0					4.6	4.9
WNW	1.0	1.3	.9	.4	.2	.2	.2	.0				4.1	8.5
NW	.5	1.2	1.7	2.1	2.0	1.9	.7	.2	.0			10.3	16.0
NNW	.4	1.4	2.7	4.7	4.0	1.9	.6	.1	.0			15.8	15.2
VARBL													
CALM												8.0	
	10.6	19.8	21.1	22.6	10.8	5.2	1.6	.3	.0			100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

7199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0000-0100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.6	2.3	2.7	.9	.3						8.1	10.7
NNE	.3	1.2	1.0		.1							2.6	6.6
NE	.1	.6	.2									1.0	5.2
ENE	.3	.8	.1	.1								1.3	5.0
E	.5	.5	.3	.4								1.8	6.8
ESE	.2	.6	.4	.2	.2							1.7	8.0
SE	.8	1.7	1.1	1.3								4.8	7.6
SSE	.4	3.3	2.2	1.5								7.4	7.8
S	.9	4.3	4.3	2.4	.3							12.2	7.8
SSW	1.2	1.7	.5		.1							3.5	4.8
SW	.6	1.8	.1									2.6	4.7
WSW	2.2	1.5	.3									4.0	3.6
W	3.9	4.3	.8									8.9	4.0
WNW	1.6	2.0	1.2									4.8	4.8
NW	1.1	2.6	2.7	1.6	.9	.2	.2					9.2	9.5
NNW	.6	1.7	3.4	4.3	1.7	.6						12.5	11.7
VARBL													
CALM												13.5	
	15.1	30.4	20.9	14.5	4.2	1.2	.2					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.9	2.3	2.2	.1	.1						7.1	8.9
NNE	.2	.5	.3	.3								1.4	6.5
NE	.1	.5	.1									.8	4.6
ENE	.2	.4		.1								.8	5.0
E	.6	.8	.3	.5								2.3	6.7
ESE	.5	.4	.5	.3								1.8	7.2
SE	.5	.8	.5	.8								2.6	7.5
SSE	1.0	1.4	2.5	2.2	.4							7.4	8.7
S	1.6	3.5	2.9	2.9	.1							11.1	7.8
SSW	1.5	1.3	.4									3.2	4.0
SW	1.1	2.2	.1									3.3	4.2
WSW	1.7	1.5	.1	.2								3.5	4.0
W	3.0	5.5	.8	.1								9.4	4.4
WNW	2.2	2.6	.6		.1							5.5	4.5
NW	.9	1.9	3.1	1.6	.4	.4	.1					8.5	9.6
NNW	.4	1.8	3.3	5.8	2.3	1.0	.2					14.8	12.9
VARBL													
CALM												16.6	
	16.1	27.1	18.0	17.0	3.4	1.5	.3					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

0600-0800
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	3.3	2.9	.2							8.8	9.0
NNE	.1	.4	1.0	.4								1.9	8.2
NE	.1	.3		.1								.5	5.6
ENE		.3	.3	.2								.9	8.4
E	.5	.4	.5	.4	.1							2.0	7.7
ESE	.2	.2	.5	.2								1.2	8.0
SE	.4	1.5	1.4	.8	.1							4.2	7.6
SSE	1.0	2.8	4.5	2.6	.5	.1						11.5	8.9
S	2.3	4.6	3.2	4.1	.6	.2	.1					15.2	8.6
SSW	.9	1.0	.4									2.3	4.5
SW	1.3	1.7	.4	.1								3.5	4.7
WSW	1.7	2.2	.5									4.4	4.2
W	1.4	1.5	.9	.2								4.0	4.9
WNW	1.2	1.6	1.0	.5	.2	.1						4.6	7.0
NW	.9	.9	1.5	2.8	.9	1.5						8.4	13.4
NNW	.5	1.3	3.9	8.9	3.1	.8	.1					18.6	13.0
VARB													
CALM												8.0	
	12.9	22.7	23.4	24.3	5.8	2.7	.2					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIF WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625 ELLSWORTH AFB SD

73-82

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0900-1100

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.6	6.0	5.3	1.0	.1						16.1	9.8
NNE	1.1	1.2	2.0	.6								5.0	7.0
NE	1.2	.6	.8	.1								2.7	5.0
ENE	.3	.8	.4	.1	.1							1.7	6.9
E	1.2	1.1	.5	.3	.2							3.1	6.7
ESE	.5	.8	2.2	.4								3.9	7.3
SE	.5	.6	3.4	.9	.3							5.8	8.8
SSE	.5	2.2	5.1	6.4	1.9	.5						16.6	11.5
S	.8	1.9	2.0	4.0	2.3	.8						11.7	12.3
SSW	.3	.2	.1	.3								1.0	7.6
SW		.3	.1	.6								1.1	10.2
WSW	.2	.2	.2	.3								1.0	8.0
W	.4	.2	.5	.4	.1							1.7	8.8
WNW		.3	.9	.3	.1	.1	.1					1.8	11.9
NW		.3	1.0	1.4	1.8	1.7						6.2	17.2
NNW	.4	1.5	2.8	6.7	4.2	1.1	.2					16.9	14.2
VARBL													
CALM												3.7	
	8.5	14.9	28.1	28.2	12.1	4.3	.3					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.2	6.9	5.7	1.2	.2						16.7	10.5
NNE	.8	1.0	2.6	.6								4.9	7.6
NE	.3	1.7	1.5	.1								3.7	6.3
ENE	.3	1.1	1.2	.1	.2							2.9	7.1
E	.8	1.0	1.2	.5	.2							3.7	7.3
ESE	.5	.9	2.3	1.4	.1							5.2	8.9
SE	.2	1.1	2.8	2.5	.1							6.7	9.7
SSE	.1	.9	3.0	5.8	1.8	.5						12.2	12.9
S	.6	.9	1.6	5.6	3.5	1.0	.2					13.4	14.4
SSW	.2	.3	.1	.2	.1		.1					1.1	10.2
SW	.1	.4	.5	.3								1.4	7.8
WSW	.1	.4	.4	.4								1.4	8.4
W	.1	.4	.9	1.0								2.4	10.1
WNW	.2	.1	.5	.1	.4	.2						1.6	11.9
NW	.4	.4	.8	.9	1.3	1.3	.5	.3				5.9	17.9
NNW	.2	.6	2.7	4.5	4.2	2.0	.3					14.6	15.7
VARBL													
CALM												2.4	
	5.6	13.3	28.0	29.8	13.2	5.3	1.2	.3				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	15-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	1.8	5.6	5.7	1.4		.1					15.7	10.9
NNE	.5	1.4	2.9	1.5								6.3	7.9
NE	.2	1.0	1.5	.2								2.9	7.4
ENE	.5	1.4	1.9	.3	.1							4.3	7.1
E	.4	1.3	1.8	.9	.1	2						4.7	8.8
ESE	.3	.5	2.2	1.6	.1							4.7	9.8
SE	.6	1.0	2.2	1.6	1.2							6.6	10.7
SSE	.2	1.3	2.8	3.9	.6	.1						10.1	12.1
S	.4	1.1	1.9	4.3	.7	.5						10.4	12.9
SSW	.2	.3	1.0	.4	.1	.1	.1					2.4	11.0
SW		.2	.8	.8								2.0	12.1
WSW	.2	.2	.3	.3								1.1	8.2
W	.6	.2	1.0	1.1	.4							3.3	10.0
WNW	.1		.4	.8	.5		.1					1.9	14.2
NW		.6	.6	2.3	2.6	.9	.3	.1				7.4	16.5
NNW		.4	1.7	5.9	3.2	1.8	.2	.1				13.4	16.1
VARBL													
CALM												2.6	
	5.4	12.8	28.6	31.5	14.0	4.1	.9	.2				100.0	11.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	.4	2.3	3.5	3.8	1.5	.1						11.6	10.6
NNE	.5	1.4	1.6	.6								4.2	7.0
NE	.5	1.2	1.3	.6								3.7	6.9
ENE	.8	2.0	.5	.3								3.7	5.7
E	.3	2.7	2.3	1.5	.2	.1						7.1	8.2
ESE	.1	1.1	2.2	1.8	.3							5.5	9.7
SE	.9	1.7	2.6	1.4	.3							6.9	8.4
SSE	1.1	1.6	2.9	1.4	.4		.1					7.5	8.7
S	1.1	2.7	2.5	1.9	.2	.1						8.5	8.4
SSW	.9	1.1	.5	.2	.2							2.9	6.4
SW	.9	.6	.2	.2								1.9	5.1
WSW	.5	.9	.8	.4								2.6	6.7
W	1.4	.3	.2	.2	.2		.1					2.5	6.8
WNW	.9	1.6	.5	.8		.2	.1					4.1	7.9
NW	.5	1.2	3.0	3.3	1.4	.2	.2					9.9	11.7
NNW	.5	1.4	2.0	5.1	2.7	.6	.3					12.7	13.4
VARBL													
CALM												4.8	
	11.3	23.8	26.7	23.7	7.5	1.4	.9					100.3	8.8

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.4	2.8	1.6	.4	.1						7.1	9.4
NNE	.4	.5	.5	.3								1.8	6.9
NE	.2	.5	.4									1.2	5.5
ENE	.3	.9	.3	.2								1.7	6.1
E	1.0	1.2	1.0	.8	.1							4.0	7.4
ESE	.2	1.2	1.1	.3								2.8	7.1
SE	.3	1.2	1.3	.8	.4							4.0	8.7
SSE	1.3	3.1	2.5	1.6								8.5	7.3
S	1.2	4.4	3.7	1.5	.1							10.9	6.8
SSW	1.5	1.6	.5	.3								4.0	5.3
SW	1.6	1.3	.4	.1								3.4	4.4
WSW	2.0	1.3	.1	.1								3.6	3.6
W	2.5	3.9	.5	.2								7.1	4.5
WNW	1.3	2.3	1.2	.1		.1						5.0	5.7
NW	.4	3.2	3.2	1.6	.4	.9						9.8	9.7
NNW	.4	1.3	4.2	3.9	2.2	1.3	.2					13.5	13.0
VARB.													
CALM												11.7	
	15.5	29.3	23.8	13.5	3.7	2.4	.2					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

929

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

MAY
MONTH
ALL
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	4.1	3.7	.8	.1	.0					11.4	10.1
NNE	.5	1.0	1.5	.6	.							3.5	7.3
NE	.3	.8	.7	.1								2.0	6.2
ENE	.3	1.0	.6	.2	.1							2.2	6.5
E	.6	1.1	1.0	.7	.1	.0						3.6	7.7
ESE	.3	.7	1.4	.8	.1							3.3	8.6
SE	.5	1.2	1.9	1.2	.3							5.2	8.8
SSE	.7	2.1	3.2	3.2	.8	.2	.0					10.2	10.1
S	1.1	2.9	2.8	3.3	1.2	.3	.0					11.7	10.0
SSW	.8	.9	.5	.2	.1	.0	.0					2.5	6.1
SW	.7	1.1	.3	.3	.0							2.4	5.9
WSW	1.1	1.0	.3	.2								2.7	4.9
W	1.7	2.0	.7	.4	.1		.0					4.9	5.6
WNW	.9	1.3	.8	.3	.2	.1	.0					3.7	7.1
NW	.5	1.4	2.0	1.9	1.2	.9	.2	.1				8.2	12.6
NNW	.4	1.3	3.0	5.6	2.9	1.2	.2	.0				14.6	13.7
VARBL													
CALM												7.9	
	11.3	21.8	24.8	22.8	8.0	2.9	.5	.1				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 7478

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.7	1.9	1.0		.1						5.1	7.8
NNE		.6			.1							.7	6.8
NE	.2	.6	.1									.9	4.5
ENE	.1	.2	.2									.6	5.6
E	.6	1.0	.4	.2								2.2	5.6
ESE	.4	.2	.6	.1								1.3	6.4
SE	.7	1.2	1.0	.4								3.3	6.6
SSE	.8	2.8	2.7	.7	.1							7.0	7.1
S	1.4	5.2	6.0	.7	.2							13.6	6.8
SSW	.9	2.1	.2	.1								3.3	4.7
SW	1.9	1.1										3.0	3.3
WSW	3.2	2.1	.2		.1							5.7	3.5
W	5.0	4.2	.7		.1							10.0	3.8
WNW	2.2	2.3	1.7	.3	.2	.1						6.9	6.0
NW	.6	3.7	1.9	2.0	.7	.3	.1					9.2	9.3
NNW	.9	2.3	3.7	2.4	.9	.1						10.3	9.3
VARBL													
CALM												16.8	
	19.4	31.4	21.2	8.0	2.4	.7	.1					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 899

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.2	1.3	1.7	.3	.1						5.0	9.9
NNE	.3	.3	.4	.1								1.2	5.7
NE	.2	.2	.1		.1							.7	6.0
ENE	.1	.1	.2	.1								.6	8.2
E	.2	.4	.7	.1								1.4	6.8
ESE	.6	.8	.4									1.8	4.9
SE	.9	.7	.8	.6								2.9	6.7
SSE	1.0	2.3	2.9	.6								6.8	6.7
S	1.6	3.9	3.6	1.1	.2							10.3	6.9
SSW	1.3	1.0	.3	.2								2.9	4.8
SW	1.9	.8		.1								2.8	3.2
WSW	3.8	1.1	.3									5.2	3.0
W	5.2	4.6	.8	.1								10.7	3.9
WNW	2.7	4.8	1.1	.3		.3						9.2	5.5
NW	1.7	2.6	2.7	1.8	.7	.3						9.7	8.6
NNW	1.3	2.7	3.4	2.3	1.3	.6	.2	.1				12.0	10.5
VARBL													
CALM												16.9	
	23.1	27.4	19.1	9.1	2.7	1.3	.2	.1				100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.9	4.2	3.4	.1							10.4	9.2
NNE	.6	.4	.3	.1								1.4	5.2
NE	.4	.1	.1									.7	4.0
ENE	.4	.1	.1									.7	3.5
E	.2	.3	.1									.7	4.5
ESE	.6	.4	.2	.4	.1							1.8	7.6
SE	.3	1.7	1.0	.2	.1							3.3	6.6
SSE	.9	2.1	3.6	2.1	.1							8.8	8.4
S	2.0	4.2	3.2	3.2	.4							13.1	8.1
SSW	1.8	1.6	.2	.1	.1							3.8	4.3
SW	2.0	1.1	.2		.1							3.4	3.8
WSW	2.8	1.1	.1	.1								4.1	3.2
W	4.0	2.4	1.1	.3								7.9	4.5
WNW	1.6	.8	.6	.8	.4	.2						4.3	8.2
NW	1.0	1.6	1.8	2.3	1.3	1.0	.3					9.3	12.4
NNW	1.1	2.1	3.7	4.7	1.7	1.1						14.3	11.6
VARBL													
CALM												11.9	
	20.4	22.0	20.6	17.9	4.6	2.3	.3					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.0	7.9	5.4	.2							18.9	9.0
NNE	.8	1.8	1.8	.2								4.6	6.2
NE	.7	2.2	.6									3.4	5.0
NNE	.6	1.9	.6	.1								3.1	5.1
E	.8	2.3	1.1	.1								4.3	5.4
ESE	1.1	1.3	.7	.2								3.3	5.3
SE	.6	1.3	2.2	2.4	.1							6.7	9.1
SSE	.6	2.1	4.2	5.7	.6	.1						13.2	10.0
S	.7	1.9	2.6	3.8	1.7	.2						10.8	11.5
SSW	.3	.6	.2	.1								1.2	5.5
SW	.2	.2	.3									.8	5.7
WSW	.2	.2	.1	.2								.8	6.9
W	.2	.4	.1	.6								1.3	8.5
WNW	.2		.2	.8	.1							1.3	11.4
NW	.4	.1	1.0	1.6	2.0	.9	.2	.1				6.3	16.1
NNW	.9	1.8	3.4	6.1	2.8	1.0						16.0	12.6
VARBL													
CALM												3.9	
	9.6	22.2	27.0	27.3	7.4	2.2	.2	.1				100.0	9.4

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.1	8.2	5.8	1.1	.1						19.5	9.7
NNE	.7	1.4	1.9	.8	.1							4.9	7.8
NE	.3	2.0	1.0	.4								3.8	6.6
ENE	.8	2.3	.6	.1								3.8	5.2
E	1.3	2.2	1.9	.1								5.6	5.6
ESE	.9	1.2	2.3	1.0	.2							5.7	7.8
SE	.2	2.1	2.0	2.6	.2							7.1	9.3
SSE	.2	1.6	1.9	6.1	1.9	.1						11.8	12.2
S	.4	1.6	1.6	5.1	1.2							9.9	11.6
SSW	.3	.3	.3	.1								1.1	6.0
SW		.3	.2	.1								.7	6.7
WSW	.4	.4	.1	.1	.1							1.2	6.1
W	.2	.3	.3	.6	.4							1.9	11.1
WNW	.1	.1	.1	.1	.3	.1						.9	13.6
NW	.3	.7	.4	2.0	.9	.2		.1				4.7	13.6
NNW	.8	1.2	2.4	5.0	3.8	.8	.2					14.2	13.9
VARBL												3.3	
CALM													
	8.2	21.0	25.4	30.0	10.3	1.3	.2	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS

899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	3.0	6.4	5.7	1.0	.2		.2				18.3	10.0
NNE	.4	1.0	1.9	.8	.2							4.3	8.3
NE	.7	1.2	.7	.2								2.8	5.5
ENE	.6	2.1	1.0	.3								4.0	6.0
E	.6	1.6	3.3	1.6								7.0	8.2
ESE	.4	1.7	1.9	1.6	.1							5.7	8.4
SE	.6	1.6	2.1	1.9	.1							6.2	8.8
SSE	.9	1.6	3.0	4.4	.7							10.6	10.0
S	1.1	1.6	1.8	3.8	.3							8.6	10.0
SSW	.1	.2	.3	.1								.8	7.3
SW	.1	1.0	.1									1.2	5.5
WSW	.6	.4	.2	.2			.1					1.6	7.8
W	.6	1.0	.6	.2	.1							2.4	6.6
WNW	.4	.7	.2	.4	.4	.2						2.4	10.4
NW	.1	.6	1.0	2.0	1.1	.2	.1					5.1	13.5
NNW	.7	2.2	2.6	5.8	2.6	1.0						14.8	12.8
VARBL													
CALM												4.2	
	9.6	21.3	27.1	29.0	6.7	1.7	.2	.2				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER

CALM

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.0	5.3	3.0	.4	.1	.2	.1				12.6	9.5
NNE	.9	2.3	.9	.4	.2							4.8	6.4
NE	.2	1.2	1.3	.1		.1						3.0	7.3
ENE	.7	3.3	1.4	.2								5.7	5.8
E	.9	3.7	2.0	1.0								7.6	6.7
ESE	.7	1.2	2.4	2.6								6.9	8.9
SE	.3	2.4	3.2	1.3								7.3	7.9
SSE	1.2	2.2	2.4	1.4								7.3	7.3
S	.7	2.0	2.4	.9	.1							6.1	7.5
SSW	1.3	.7	.7									2.7	4.4
SW	1.0	1.2				.1						2.3	4.6
WSW	.6	1.0	.4	.1								2.1	5.6
W	1.2	.6		.2	.2							2.2	5.6
WNW	.9	.6	.3	.7	.6							3.0	9.1
NW	.6	1.7	2.3	1.4	.8	.4						7.2	10.3
NNW	.3	1.6	3.4	4.6	1.1	.3	.2	.3				11.9	12.6
VARBL													
CALM												7.3	
	11.8	28.7	28.8	18.0	3.4	1.1	.4	.4				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	1.8	.3	.2							4.3	7.4
NNE	.3	.6	1.0	.3	.1							2.3	7.6
NE	.2	1.3	.4									2.0	5.3
ENE	.3	.6	.6									1.4	5.9
E	.7	1.2	2.1	.2								4.2	7.0
ESE	.6	1.1	1.4	.7	.1							3.9	7.7
SE	.8	1.2	1.8	.9			.1					4.8	8.0
SSE	1.1	2.0	2.7	1.1		.1						7.0	7.6
S	1.2	5.4	4.2	1.2								12.1	6.6
SSW	1.7	1.1	.7									3.4	4.4
SW	2.7	1.0	.2	.1								4.0	3.4
WSW	2.0	.9	.2									3.1	3.3
W	4.7	3.1	.9	.4								9.1	4.3
WNW	1.2	3.1	.4	.2	.1	.2						5.3	5.8
NW	1.1	3.1	2.8	1.3	.4	.3	.1					9.2	8.4
NNW	1.0	2.0	3.3	2.2	.8	.4	.1	.1				10.0	10.2
VARBL													
CALM												13.7	
	20.0	29.3	24.6	9.1	1.8	1.1	.3	.1				100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.4	4.6	3.3	.4	.1	.0	.0				11.8	9.3
NNE	.5	1.1	1.0	.3	.1							3.0	7.0
NE	.4	1.1	.5	.1	.0	.0						2.2	5.8
ENE	.4	1.3	.6	.1								2.5	5.6
E	.7	1.6	1.5	.4								4.1	6.6
ESE	.7	1.0	1.3	.8	.1							3.8	7.6
SE	.5	1.5	1.8	1.3	.1		.0					5.2	8.2
SSE	.8	2.1	2.9	2.8	.4	.0						9.1	9.1
S	1.1	3.2	3.2	2.5	.5	.0						10.6	8.5
SSW	1.0	.9	.4	.1	.0							2.4	4.8
SW	1.2	.8	.1	.0	.0	.0						2.3	4.0
WSW	1.7	.9	.2	.1	.0		.0					3.0	4.0
W	2.6	2.1	.6	.3	.1							5.7	4.7
WNW	1.2	1.5	.6	.5	.3	.2						4.2	7.1
NW	.7	1.7	1.7	1.8	1.0	.5	.1	.0				7.6	11.0
NNW	.9	2.0	3.3	4.1	1.9	.7	.1	.1				12.9	11.9
VARBL													
CALM												9.8	
	15.3	25.4	24.2	18.6	4.9	1.5	.3	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 7198

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

720625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	1.5	1.0	.3	.1						5.2	8.2
NNE	.1	.3	.5		.1							1.1	7.7
NE	.6	.5	.1	.2								1.5	5.3
ENE	.5	.4	.1									1.1	3.9
E	.3	.9	.2	.1								1.5	5.6
ESE	.2	.2	.4	.1								1.0	6.6
SE	.5	1.3	1.4	.2								3.4	6.3
SSE	.9	3.9	4.3	.5	.1							9.7	7.0
S	1.9	5.3	5.2	1.5	.2	.1						14.2	7.2
SSW	1.1	1.7	.6	.3								3.8	5.4
SW	1.5	1.6	.4									3.5	4.1
WSW	2.5	1.4	.4	.2								4.5	4.1
W	4.3	2.6	.3									7.2	3.2
WNW	2.7	1.8	.4	.3								5.3	4.1
NW	1.2	4.0	2.2	.5	.3							8.2	6.7
NNW	1.0	2.9	3.9	2.9	1.5	.2	.1	.1				12.6	10.3
VARBL													
CALM												16.3	
	20.4	30.0	22.0	8.0	2.6	.4	.1	.1				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625

ELLSWORTH AFB SD

73-82

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	3.1	1.2	.2	.3						7.2	9.0
NNE	.2	.2	.2	.2								.9	7.1
NE		.2	.1	.2								.5	9.0
ENE	.6	.2	.1									1.0	3.8
E	.4	.3	.3									1.1	5.1
ESE	.2	.8	.1	.1								1.2	5.8
SE	.5	2.4	.6	.4								4.0	6.1
SSE	1.1	2.8	3.2	1.2								8.3	7.2
S	2.3	4.8	4.7	1.6	.1							13.5	6.9
SSW	1.0	1.7	.3									3.0	4.4
SW	1.3	1.2	.5									3.0	4.3
WSW	2.9	1.1	.4									4.4	3.4
W	4.7	3.0	.5									8.3	3.4
WNW	3.2	2.5	.2									5.9	3.5
NW	2.2	3.2	1.5	.5	.4	.1						8.0	6.5
NNW	1.2	3.3	3.2	2.5	.5	.4	.1					11.3	9.4
VARBL													
CALM												18.5	
	22.3	29.7	19.4	8.0	1.3	.9	.1					100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.G.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	1.0	1.7	3.6	2.4	.5	.1						9.5	9.2
NNE	.9	1.3	.4	.1		.1						2.8	6.1
NE	.1	.5	.3	.1								1.1	6.7
ENE		.5	.1	.1								.8	6.1
E	.6	1.2	.4	.1								2.4	5.0
ESE	.3	.5	.5	.2								1.6	6.6
SE	1.0	1.4	.9	.5								3.8	6.0
SSE	1.4	3.0	4.5	2.9	.3							12.2	8.3
S	2.4	3.8	5.1	2.9	.9							14.9	8.2
SSW	1.7	1.5	.1	.2								3.5	3.9
SW	1.5	.9	.3									2.7	3.6
WSW	1.9	.8										2.7	3.2
W	3.3	1.7	.2									5.3	3.1
WNW	1.4	.6	.2									2.3	3.7
NW	.9	2.8	.6	1.1	.3	.2						5.9	7.9
NNW	.2	2.6	6.0	4.3	1.5	.1	.1					14.8	10.7
VARBL													
CALM												13.9	
	18.6	24.8	23.5	14.9	3.5	.5	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.8	3.7	5.5	5.3	.5							16.8	9.0
NNE	.5	1.9	1.2	.2	.1							4.0	6.4
NE	1.5	1.3	.5									3.3	4.2
ENE	.8	1.3	.1	.2								2.4	5.1
E	.9	2.4	.8									4.0	4.9
ESE	.4	.4	.9	.2								1.9	6.7
SE	.9	2.5	2.2	.5	.1							6.1	6.8
SSE	1.1	3.4	5.7	6.1	.6							17.0	9.6
S	1.2	1.7	4.7	5.3	2.2	.3						15.4	11.2
SSW	.4	.4	.4	.3	.1							1.7	7.7
SW	.6	.1	.1									.9	3.4
WSW	.5		.1	.2								.9	5.4
W		.4	.1	.1								.6	7.0
WNW	.1	.5	.1	.3								1.1	7.7
NW	.4	.9	.4	.5	.2							2.5	8.3
NNW	1.3	1.8	3.5	6.6	1.6	.1						14.9	11.0
VARBL													
CALM												6.6	
	12.5	22.8	26.3	25.9	5.5	.4						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.5	5.5	6.1	1.3	.2						16.7	10.5
NNE	.4	1.7	1.7	.2								4.1	6.5
NE	.6	1.4	1.0	.2								3.2	6.1
ENE	.8	1.5	.5	.2								3.0	5.5
E	1.2	2.6	1.4	.3								5.5	5.7
ESE	1.0	1.4	1.6	.9								4.8	7.0
SE	.9	1.6	4.0	2.6								9.0	8.3
SSE	.8	2.2	4.7	6.5	.9							14.9	10.5
S	1.1	1.4	2.7	6.5	2.3	.1						14.0	12.0
SSW	.2	.2		.3	.1							.9	8.5
SW	.1	.4	.2	.2								1.0	7.1
WSW	.3	.2	.2									.8	4.4
W	.4	.1	.4									1.0	5.1
WNW	.3	.5	.4	.1	.2							1.6	7.9
NW	.3	1.0	1.8	1.2	.3	.1	.1					4.8	10.2
NNW	.5	1.2	3.1	4.0	1.1	.3	.1	.1				10.4	12.0
VARBL													
CALM												4.3	
	10.0	19.9	29.4	29.2	6.1	.8	.2	.1				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.1	1.6	5.1	4.0	.6	.3						12.7	10.1
NNE	.4	1.2	1.8	.8		.1						4.3	8.2
NE	.3	1.2	1.2	.4								3.1	7.2
ENE	.6	1.2	.9	.3								3.0	5.9
E	1.0	2.9	2.8	1.5								8.2	7.0
ESE	.9	1.5	2.6	1.1	.1							6.1	8.2
SE	1.0	1.9	3.9	2.5	.1							9.4	8.7
SSE	.5	2.3	4.5	3.8	.9	.1						12.1	9.9
S	.9	1.9	3.2	4.7	.3	.2						11.3	10.4
SSW		.9	.5	.9			.1					2.4	9.6
SW	.4	.8		.1	.2							1.5	6.6
WSW	.4	.5	.3	.2								1.5	6.6
W	.1	.6	.2	.4	.1							1.5	8.2
WNW		.6	.3	.3	.2		.1					1.6	11.1
NW	.4	1.1	1.6	1.9	.2	.1						5.4	9.4
NNW		.9	3.8	4.1	2.0	.4	.1					11.3	12.6
VARBL													
CALM												4.6	
	8.1	21.1	32.7	27.0	4.8	1.3	.3					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.3	4.6	3.2	.4	.3						11.3	9.6
NNE	.9	1.5	1.8	.4		.1						4.7	6.9
NE	.1	.8	1.1	.3	.2							2.5	8.6
ENE	1.1	2.2	1.6	.4								5.3	6.0
E	1.8	3.5	3.1	1.2								9.7	6.5
ESE	.3	1.8	4.0	1.1	.1							7.3	8.2
SE	1.2	3.2	3.4	1.7	.1							9.7	7.2
SSE	.9	2.9	3.4	1.9	.3							9.5	8.1
S	.8	1.9	1.9	.4	.4	.2						5.7	8.2
SSW	.8	.3	.4	.3	.1							1.9	6.6
SW	1.0	1.0	.4	.1	.2							2.7	6.0
WSW	1.0	1.3	.3	.1	.2							2.9	5.7
W	1.2	.9	.3	.3	.1	.1						2.9	6.3
WNW	.9	1.2	.3	.3		.2						2.9	6.7
NW	.3	2.3	1.6	1.0		.1						5.3	7.8
NNW	.6	1.1	2.9	3.2	.3	.1	.1					8.5	10.4
VARBL													
CALM												7.3	
	13.2	28.1	31.4	16.1	2.6	1.2	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.1	2.4	.6	.1							4.9	7.7
NNE	.1	1.2	.9	.1								2.3	6.2
NE	.5	1.3	.4	.1		.1						2.5	5.7
ENE	.6	1.2	.4	.2								2.5	5.7
E	.9	1.6	.6	.6								3.8	6.1
ESE	.4	1.4	1.6	.2								3.7	6.5
SE	.9	1.6	2.5	.5								5.5	7.0
SSE	1.3	4.3	1.9	.5	.3							8.4	6.4
S	2.4	4.6	4.9	.9	.1	.1						13.0	6.5
SSW	1.7	1.6	.6	.2	.2							4.4	5.3
SW	1.4	1.5	.5	.1								3.5	4.4
WSW	2.0	1.9	.5									4.5	4.1
W	3.2	1.4	.3	.1								5.1	3.5
WNW	1.9	2.3	.3	.1								4.6	4.1
NW	.5	3.4	2.6	.5	.3	.3						7.7	7.7
NNW	.8	3.8	2.7	2.2	.2	.2						9.8	8.5
VARBL													
CALM												13.9	
	19.5	34.2	23.3	7.1	1.3	.8						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

ALL
MOSES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	3.9	3.0	.5	.2						10.5	9.5
NNE	.4	1.2	1.1	.3	.0	.0						3.0	6.9
NE	.5	.9	.6	.2	.0	.0						2.2	6.3
ENE	.6	1.1	.5	.2								2.4	5.5
E	.9	1.9	1.2	.5								4.5	6.1
ESE	.5	1.0	1.5	.5	.0							3.5	7.4
SE	.8	2.0	2.4	1.1	.0							6.4	7.4
SSE	1.0	3.1	4.0	2.9	.4	.0						11.5	8.7
S	1.6	3.2	4.1	3.0	.8	.1						12.6	8.9
SSW	.9	1.0	.4	.3	.1		.0					2.7	5.9
SW	1.0	.9	.3	.1	.1							2.4	4.7
WSW	1.5	.9	.3	.1	.0							2.8	4.3
W	2.2	1.3	.3	.1	.0	.0						4.0	4.0
WNW	1.3	1.3	.3	.2	.1	.0	.0					3.2	5.1
NW	.8	2.3	1.5	.9	.3	.1	.0					6.0	7.6
NNW	.7	2.2	3.6	3.7	1.1	.2	.1	.0				11.7	10.7
VARBL													
CALM												10.7	
	15.6	26.3	26.0	17.0	3.5	.8	.1	.0				100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.7	1.6	1.3	.1							5.3	8.0
NNE	.3	.6	.5	.1								1.6	6.3
NE	.3	.2	.3									.9	5.1
ENE	.4	.8	.3	.2								1.7	6.1
E	.8	1.1	.2	.1	.1							2.3	5.5
ESE	.2	.5	.3									1.1	5.3
SE	.5	1.2	1.5	.3								3.6	6.7
SSE	1.2	3.0	3.1	1.4								8.7	7.2
S	2.2	5.4	4.5	2.2	.1							14.3	7.0
SSW	1.4	1.4	.8	.3								3.9	5.4
SW	2.4	1.7	.2	.2								4.5	4.0
WSW	2.9	1.7	.2									4.8	3.3
W	5.1	4.2	.6		.1							10.0	3.8
WNW	2.0	2.5	.9									5.4	4.5
NW	1.1	3.8	2.6	.9	.5							8.8	7.2
NNW	.6	1.4	1.3	3.1	.8	.3	.1					7.6	11.2
VARBL													
CALM												15.5	
	22.0	31.2	19.1	10.1	1.7	.3	.1					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLIM

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	1.9	1.1								5.1	7.9
NNE	.3	.6	.2									1.2	5.2
NE	.1		.1	.1								.3	8.0
ENE		.3	.1									.4	5.8
E	.6	.6	.6									1.9	5.0
ESE	.3	.4	.5	.3								1.6	6.8
SE	.3	1.4	.9	.3								2.9	6.6
SSE	1.5	2.6	2.4	1.9	.1							8.5	7.6
S	1.8	3.0	4.1	1.4	.2	.1						10.6	7.4
SSW	1.3	1.3	.2	.1								2.9	4.4
SW	1.8	1.1	.5									3.4	4.0
WSW	3.1	1.2	.6									4.9	3.5
W	4.1	4.3	.9									9.2	4.0
WNW	2.4	3.7	.5	.1								6.7	4.2
NW	1.9	3.7	1.7	.6	.5	.3		.1				8.9	7.5
NNW	.8	3.1	3.0	3.3	.9	.2	.1					11.4	9.8
VARBL													
CALM												19.9	
	20.9	28.9	18.4	9.4	1.7	.6	.1	.1				100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER

CLAM

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.8	2.7	2.8	1.7	.1							8.1	7.7
NNE	.3	.3	.2	.1								1.0	5.8
NE		.4	.2									.6	6.3
ENE	.1			.1								.2	8.0
E	.3		.1	.1								.3	5.4
ESE	.2	.3	.3	.1								1.0	6.2
SE	.3	1.1	1.7	.6	.2							4.0	8.1
SSE	1.2	1.6	4.3	3.0	.6	.2						11.0	9.5
S	2.8	3.1	4.2	2.6	.3							13.0	7.4
SSW	1.4	1.8	.5									3.8	4.2
SW	2.0	1.4										3.4	3.3
WSW	2.5	.6	.2									3.3	3.0
W	3.0	3.3	1.0	.3								7.6	4.5
WNW	1.0	1.5	.9	.3								3.7	5.5
NW	1.0	1.9	1.4	1.9	.3	.4						7.0	9.6
NNW	.9	2.9	3.9	4.1	1.6	.9	.2					14.4	11.4
VARBL													
CALM												17.4	
	17.7	23.1	21.7	15.1	3.2	1.5	.2					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.1	6.1	4.8	.8	.2						17.3	9.2
NNE	1.1	1.3	1.0	.5								3.9	6.2
NE	.6	.5	.4	.1								1.7	5.1
ENE	.6	1.0	.4	.2								2.3	5.1
E	1.1	1.1	1.2									3.3	5.4
ESE	.8	1.0	.5	.1								2.4	5.6
SE	1.0	1.5	3.2	1.4								7.1	7.7
SSE	1.1	2.5	4.0	4.3	.4	.2						12.5	9.6
S	1.5	2.7	3.7	4.8	1.9	.3						14.9	10.4
SSW	.4	.6	.4	.3		.1						1.9	7.3
SW	.2	.5	.2	.2								1.2	6.9
WSW	.2		.4		.1							.8	8.4
W	.4	.4	.1		.1	.1						1.2	7.4
WNW	.3	.2	.6			.1						1.3	7.8
NW	.6	.9	1.6	1.4	.6	.3	.1					5.6	11.1
NNW	.4	1.9	3.3	5.7	2.5	.6	.2					14.7	12.6
VARBL													
CALM												8.0	
	11.7	20.2	27.3	24.0	6.5	2.0	.3					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.4	4.7	5.4	1.6	.3						15.4	10.7
NNE	.8	2.0	.9	.4								4.1	5.9
NE	.8	1.5	1.1	.3								3.7	6.1
ENE	.1	1.4	1.0									2.5	5.9
E	1.4	2.0	1.4	.5								5.4	5.9
ESE	.5	1.6	1.5	.8								4.4	7.1
SE	1.2	2.8	3.8	2.8	.1							10.7	8.2
SSE	.5	1.3	4.1	4.7	1.3	.2						12.2	11.1
S	1.0	1.7	3.3	3.3	1.2	.6						11.2	11.1
SSW	.4	.2	.5	.6								1.8	8.1
SW	.2	.4	.6	.5	.1							1.9	9.0
WSW	.3	.1	.4	.3								1.2	8.0
W	.3	.6	.5	.3	.1							1.9	7.9
WNW	.1	.4	.3	.4	.2							1.5	10.1
NW	.3	.8	1.1	.9	.9	.4						4.3	11.9
NNW	.5	1.0	2.7	5.5	2.3	.8	.1					12.8	13.2
VARBL													
CALM												5.1	
	9.5	20.3	28.0	26.9	7.8	2.4	.1					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.6	4.3	6.0	1.1	.1						14.6	10.7
NNE	.6	1.2	2.2	1.3	.4	.1						5.8	9.0
NE	.5	.9	1.1	.2								2.7	6.4
ENE	1.0	1.8	1.2	.2								4.2	5.7
E	.9	3.3	2.4	.6	.2							7.4	7.1
ESE	.3	1.2	1.9	1.5								5.0	8.8
SE	.3	2.7	2.8	2.9	.2							8.9	8.9
SSE	.9	2.4	3.0	4.0	.5	.1						10.9	9.6
S	.6	2.0	3.4	3.1	1.3	.1						10.7	10.5
SSW	.3	1.1	1.1	.3								2.8	7.3
SW	.3	.6	.9	.5								2.4	7.9
WSW	.5	.2	1.0	.6	.1							2.5	8.0
W	.2	.8	.2	.4		.1						1.7	8.2
WNW	.5	.4	.2	.8								1.9	7.7
NW	.4	.8	.4	.9	1.0	.2		.1				3.8	12.7
NNW	.2	1.2	3.1	3.6	1.2	.5	.1	.1				10.0	12.3
VARBL													
CALM												4.7	
	8.3	23.1	29.2	27.0	6.0	1.3	.1	.2				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.6	5.0	2.5	.3	.1						10.7	9.3
NNE	.3	1.9	1.4	.9								4.5	7.5
NE	.6	2.2	1.1									3.9	5.6
ENE	1.2	3.3	1.0	.3	.1		.1					6.0	5.9
E	1.6	2.6	3.3	.5	.1							8.2	6.6
ESE	.6	1.8	2.5	1.7		.1						6.8	8.6
SE	1.1	2.6	3.4	1.5	.1							8.7	7.4
SSE	1.5	3.3	2.3	1.7	.3	.1						9.3	7.5
S	1.3	2.7	1.8	.6	.3							6.8	6.9
SSW	1.1	.6	.2	.5								2.5	6.2
SW	.5	.6	.5									1.7	4.9
WSW	1.0	.4			.1	.1	.1					1.7	7.2
W	1.4	1.3	.6	.5								3.9	5.5
WNW	1.1	1.4	.8	.1								3.3	5.2
NW	.5	2.0	1.6	1.1	.4	.1						5.8	8.8
NNW	.6	1.8	2.5	1.8	.9	.3	.1					8.1	10.0
VARBL													
CALM												8.2	
	14.7	31.3	28.0	13.9	2.7	.9	.3					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEAR

AUG
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.6	1.3	1.7	.3							5.7	8.8
NNE	.2	.8	.8	.1		.1						1.9	7.6
NE	.2	.8	.2	.4								1.6	6.7
ENE	.3	.4	.2	.2	.1							1.3	7.4
E	1.2	1.9	.3	.4		.1						4.0	5.9
ESE	.4	1.3	.6	.2		.1						2.7	6.3
SE	.5	1.8	2.0	.3								4.7	6.6
SSE	1.6	2.9	2.6	1.1		.1						8.3	6.8
S	2.2	5.1	4.6	1.4	.1							13.4	6.8
SSW	1.9	1.8	.4	.3								4.5	4.8
SW	1.8	1.2	.1	.2	.2							3.6	5.2
WSW	2.0	1.4	.4		.1							4.0	4.3
W	3.3	4.0	.8	.1	.4							8.6	4.9
WNW	1.6	2.2	1.0	.1								4.8	4.7
NW	1.2	2.7	2.0	1.6	.5							8.1	8.0
NNW	.8	1.7	2.7	2.0	.9	.5						8.6	10.6
VARBL													
CALM												14.1	
	20.2	31.6	20.2	10.3	2.7	1.0						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 928

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER

SLASH

ALL

NOVEMBER (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.4	3.5	3.1	.5	.1						10.3	9.4
NNE	.5	1.1	.9	.4	.1	.0						3.0	7.1
NE	.4	.8	.6	.1								1.9	6.0
ENE	.5	1.1	.9	.2	.0		.0					2.3	5.9
E	1.0	1.6	1.2	.3	.1	.0						4.1	6.2
ESE	.4	1.0	1.0	.6		.0						3.1	7.5
SE	.7	1.9	2.4	1.3	.1							6.3	7.8
SSE	1.2	2.4	3.2	2.8	.4	.1						10.2	8.8
S	1.7	3.2	3.7	2.4	.7	.1						11.9	8.5
SSW	1.0	1.1	.5	.3		.0						3.0	5.6
SW	1.2	1.0	.4	.2	.0							2.8	5.2
WSW	1.6	.7	.4	.1	.1	.0	.0					2.9	4.7
W	2.2	2.4	.6	.2	.1	.0						5.5	4.8
WNW	1.1	1.5	.6	.2	.0	.0						3.6	5.3
NW	.9	2.1	1.6	1.2	.6	.2	.0	.0				6.5	9.1
NNW	.6	1.9	2.8	3.6	1.4	.5	.1	.0				11.0	11.5
VARBL													
CALM												11.6	
	15.6	26.2	24.0	17.1	4.0	1.3	.2	.0				100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

7434

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

YEARS

SEP

MONTH

0000-0200
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.7	2.4	.9	.1							5.3	8.0
NNE	.3	.3	.1									.8	4.3
NE	.1	.2	.1									.4	5.0
ENE	.1	.3	.1		.1							.7	7.5
E	.3	.1	.3	.2								1.0	7.2
ESE	.3	.3	.2	.1	.1							1.1	6.8
SE	.2	1.1	.6									1.9	5.7
SSE	1.0	3.6	3.7	2.1	.4							10.8	7.9
S	1.9	5.0	3.0	2.0	.3							12.2	7.0
SSW	1.1	1.8	.4									3.3	4.5
SW	1.0	1.0	.1									2.1	3.7
WSW	2.7	1.6	.6	.1								4.9	3.8
W	6.0	3.3	.2									9.6	3.2
WNW	2.9	3.3	.9	.2	.2	.1						7.7	5.3
NW	.9	3.6	2.9	1.2	.6	.3	.1					9.6	8.7
NNW	.3	2.2	3.1	3.7	.9	.3						10.6	10.5
VARBL													
CALM												18.1	
	19.4	29.4	18.8	10.6	2.8	.8	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	1.4	1.0	.2	.1						4.8	8.4
NNE	.4	.7		.1								1.2	5.0
NE		.4	.1									.6	5.2
ENE	.1	.3		.1								.6	5.8
E		.2	.6	.3								1.1	9.2
ESE	.1	.3										.4	4.3
SE	.2	.6	.7	.1								1.6	6.6
SSE	.7	2.3	2.9	1.8	.6							8.2	8.6
S	2.4	3.4	2.8	2.4	.1							11.2	7.1
SSW	1.0	.3	.2		.1							1.7	4.3
SW	2.4	.4	.3	.1								3.3	3.5
WSW	3.2	1.6	.1	.1		.1						5.1	3.8
W	5.8	4.9	.1									10.8	3.3
WNW	3.4	3.2	.6	.2								7.4	4.0
NW	.8	3.3	2.9	1.8	1.0	.6	.1					10.4	9.8
NNW	.2	2.2	4.0	3.6	1.2	.7	.1					12.0	11.2
VARBL													
CALM												19.6	
	21.6	25.7	16.7	11.7	3.2	1.4	.2					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.0	1.4	1.3	.7							6.6	8.5
NNE	.4	.7	.4									1.6	5.0
NE		.1	.6									.7	7.5
ENE	.2	.1	.2	.1								.7	6.2
E	.3	1.1	.6									2.0	5.8
ESE		.3	.1	.1								.6	6.4
SE	.3	1.0	.4	.1								1.9	5.5
SSE	1.2	1.3	2.2	1.4	.7							6.9	8.7
S	1.9	2.3	4.6	2.9	.2							11.9	8.3
SSW	1.2	.8	.3									2.3	4.0
SW	1.0	1.0										2.0	3.3
WSW	2.1	2.1	.3	.1								4.7	4.0
W	6.1	2.7	.3	.1								9.2	3.2
WNW	2.9	1.6	.3	.3	.2							5.3	4.8
NW	.6	2.1	2.2	2.6	.9	.8	.2					9.3	11.4
NNW	1.0	2.4	4.7	4.3	2.0	.7	.2					15.3	11.3
VARBL													
CALM												19.1	
	20.4	21.7	18.8	13.4	4.7	1.4	.4					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.7	4.2	3.1	.6	.4	.1					13.0	9.1
NNE	1.4	1.0	1.9	.3								4.7	6.1
NE	.7	.4	.3	.2								1.7	5.7
ENE	.9	1.3	.4									2.7	4.5
E	.6	1.2	.1									1.9	4.2
ESE	.3	1.2	.7									2.2	5.5
SE	.8	1.9	1.9	.8	.1							5.4	7.3
SSE	.9	2.4	3.3	5.0	.8	.2						12.7	10.1
S	.9	2.3	2.8	4.9	.7	.6						12.1	10.6
SSW	.9	.3	.3	.2	.2							2.0	6.9
SW	.7	.2	.2	.1								1.2	5.1
WSW	.3	.3	.1	.3								1.1	6.9
W	.7	.4	.4	.2	.2							2.0	7.6
WNW		.2	.4	.9	.2	.1						1.9	12.6
NW	.3	.6	.7	2.8	2.4	.9	.2					7.9	15.7
NNW	.3	1.8	3.7	5.3	4.2	2.6	.4	.1				18.4	14.7
VARBL													
CALM												9.1	
	11.6	18.4	21.6	24.2	9.4	4.8	.8	.1				100.0	9.5

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.8	4.7	3.7	1.3	.7		.2	.1			14.0	11.2
NNE	.8	1.6	2.7	.6	.1							5.7	7.3
NE	1.3	1.8	.8	.2								4.1	5.1
ENE	1.1	1.2	.8	.3								3.4	5.3
E	.6	2.6	.9	.1								4.1	5.6
ESE	.9	.9	1.6	.2								3.6	6.4
SE	.7	1.2	2.8	2.0	.1							6.8	8.8
SSE	.3	1.1	3.8	6.6	1.9	.6						14.2	12.4
S	.3	.8	1.2	5.3	1.7	.2						9.6	13.2
SSW	.1	.2	.1	.6								1.0	9.6
SW	.2			.3								.6	9.4
WSW	.1	.3	.2	.1								.8	7.1
W		.1	.2	.2								.6	9.8
WNW	.2	.3	.4	.3	.2							1.6	9.5
NW	.2	.3	1.4	1.6	2.2	.9						6.7	15.3
NNW	.6	1.1	3.3	5.3	5.4	1.6	.9	.2	.1	.1		18.7	15.9
VARBL													
CALM												4.8	
	8.0	16.3	24.9	27.4	13.0	3.9	.9	.4	.2	.1		100.0	10.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥36	%	MEAN WIND SPEED
N	.8	2.2	5.3	5.7	1.2	.4	.1					15.8	10.5
NNE	.2	1.4	1.0	1.9								4.6	8.9
NE	.4	1.4	1.3	.4								3.7	6.9
ENE	.7	1.3	1.3	.3	.1							3.8	6.9
E	1.0	2.1	2.0	.7								5.8	6.5
ESE	.4	2.0	.9	.4								3.8	6.6
SE	.6	2.7	3.4	2.7	.1							9.4	8.7
SSE	.8	1.0	4.0	5.2	.9							11.9	10.6
S	.4	.9	1.9	4.8	1.0	.1						9.1	12.0
SSW		.7	.2	.1	.1							1.1	7.6
SW	.1	.4	.4	.1	.1							1.2	7.5
WSW	.1	.3	.3	.2			.1					1.1	9.2
W	.1	.3	.2	.2		.2						1.1	10.4
WNW		.1		.7	.1	.1						1.0	13.9
NW	.4	.9	.9	1.6	1.1	.7	.3					5.9	13.8
NNW	.2	1.4	2.9	6.7	2.4	2.9	.7	.1				17.3	15.4
VARBL													
CALM												3.4	
	6.3	19.3	26.2	31.7	7.2	4.4	1.2	.1				100.0	10.4

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER

1800-2000
HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.4	3.2	2.6	.7	.6						10.9	9.7
NNE	.7	1.7	2.0	.3								4.7	6.3
NE	.1	.6	1.1	.2								2.0	7.2
ENE	.6	2.8	1.6	.1								5.0	5.8
E	1.6	3.2	1.3	1.0								7.1	6.1
ESE	.8	1.9	3.7	1.4								7.8	7.8
SE	1.0	2.0	3.4	.9								7.3	7.1
SSE	.9	2.8	3.4	1.3	.1							8.6	7.5
S	1.2	2.7	1.6	.1								5.6	5.6
SSW	.6	.3	.1	.1								1.1	4.6
SW	.4	.2	.1									.8	3.6
WSW	.4	.6	.1	.1	.1							1.3	6.5
W	1.0	1.1	.1									2.2	3.6
WNW	1.0	2.1	.3		.3							3.8	6.0
NW	.4	2.7	2.0	2.0	.6	.1						7.8	8.9
MNW	.6	1.8	5.1	3.7	1.4	.7	.1					13.3	11.2
VARBL													
CALM												10.8	
	11.7	29.8	29.2	13.9	3.2	1.3	.1					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER

CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.7	1.8	1.3	.4	.1						6.2	8.8
NNE	.2	.4	.8	.3								1.8	7.6
NE	.1	.4	1.1									1.7	7.3
ENE	.2	.3	.1	.1								.8	5.4
E		.3	.1			.1						.6	9.4
ESE	.2	.9	.7	.1	.1							2.0	7.1
SE	.3	.9	1.1	.2								2.6	6.7
SSE	1.4	3.4	3.4	1.0								9.3	6.7
S	2.4	6.0	3.8	1.6								13.8	6.2
SSW	1.1	1.4	.3		.1							3.0	4.8
SW	1.3	1.1	.6	.1								3.1	4.3
WSW	3.1	1.1	.4									4.7	3.2
W	4.9	3.0	.2	.1								8.2	3.4
WNW	2.3	3.1	.7		.1							6.2	4.4
NW	.6	3.9	3.3	1.7	.8	.1	.2					10.6	9.0
NNW	.7	3.0	3.4	2.9	1.6	.1		.1				11.8	10.5
VARBL													
CALM												13.8	
	19.9	31.1	21.9	9.4	3.1	.4	.2	.1				100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

SEP
MONTH
ALL
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.8	2.2	3.1	2.4	.7	.3	.0	.0	.0			9.6	9.7
NNE	.6	1.0	1.1	.4	.0							3.1	6.9
NE	.3	.7	.7	.1								1.8	6.3
ENE	.5	1.0	.6	.1	.0							2.2	5.8
E	.5	1.4	.7	.3		.0						2.9	6.2
ESE	.4	1.0	1.0	.3	.0							2.7	6.9
SE	.5	1.4	1.8	.8	.0							4.6	7.6
SSE	.9	2.2	3.3	3.1	.7	.1						10.3	9.4
S	1.4	2.9	2.7	3.0	.5	.1						10.7	8.7
SSW	.7	.7	.3	.1	.1							1.9	5.3
SW	.9	.6	.2	.1	.0							1.8	4.4
WSW	1.5	1.0	.3	.1	.0	.0	.0					3.0	4.4
W	3.1	2.0	.2	.1	.0	.0						5.5	3.8
WNW	1.6	1.7	.5	.3	.2	.0						4.4	5.7
NW	.5	2.2	2.0	1.9	1.2	.5	.2					8.5	11.2
NNW	.5	2.0	3.8	4.4	2.4	1.2	.3	.1	.0	.0		14.7	13.0
VARBL													
CALM												12.3	
	14.9	24.0	22.2	17.8	5.8	2.3	.5	.1	.0	.0		100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.2	2.6	1.9	.5							6.6	9.8
NNE			.2									.2	10.0
NE	.1											.1	3.0
ENE	.1	.1										.2	4.5
E	.2	.4	.1									.8	4.7
ESE	.3											.3	1.7
SE	.4	.3	1.0	.1								1.8	6.1
SSE	.5	1.0	2.6	2.0	.3							6.5	9.4
S	1.7	3.0	2.0	1.4	.4	.2						8.8	7.5
SSW	1.1	1.3	.4									2.8	4.5
SW	1.3	1.6	.2									3.1	4.0
WSW	2.3	1.4	.3									4.0	3.7
W	6.0	5.1	1.2	.2	.1							12.6	4.1
WNW	3.9	3.5	.8	.3	.1	.2						8.8	4.9
NW	.6	3.0	3.1	1.9	.8	1.3	.2					11.0	10.9
NNW	1.2	1.3	3.4	6.2	1.6	.8	.1					14.6	11.8
VARBL													
CALM												17.8	
	20.1	23.2	18.0	14.2	3.9	2.5	.3					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.9	3.3	1.4	.3							7.5	8.6
NNE	.6	.3	.1									1.1	3.9
NE		.3	.1									.4	6.3
ENE	.2	.2										.4	3.5
E	.1	.2	.1									.4	5.5
ESE	.1		.2									.3	6.0
SE	.6	.4	1.2	.3								2.6	7.0
SSE	.5	.6	1.3	1.3	.2							4.0	9.2
S	1.2	2.8	1.9	1.7	.5							8.2	8.0
SSW	1.2	1.0	.2									2.4	4.1
SW	1.1	.9	.1	.1								2.2	4.1
WSW	2.9	1.4	.1	.3								4.7	3.7
W	6.5	5.3	1.0	.2								12.9	3.7
WNW	3.9	3.2	1.6	.5		.3						9.6	5.4
NW	1.6	2.4	2.6	2.6	.9	.5	.4	.1				11.1	10.6
NNW	.5	2.3	3.4	5.5	2.0	1.0	.3					15.1	12.6
VARBL													
CALM												17.1	
	21.6	23.3	17.3	14.0	4.0	1.8	.8	.1				100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.5	2.0	1.6	.3							6.2	8.9
NNE	.1	.3	.9	.2								1.5	7.9
NE		.1										.1	5.0
ENE		.1	.2									.3	6.7
E		.2										.2	5.0
ESE	.2	.1	.1	.1								.5	6.0
SE	.1	.1	.3	.3								.9	8.9
SSE	.6	1.9	1.2	1.2	.3							5.3	8.1
S	2.0	2.6	2.6	1.5	.4							9.1	7.4
SSW	1.0	.4	.2	.1								1.7	4.1
SW	2.0	1.3	.1	.1								3.5	3.5
WSW	2.8	1.6	.2	.1								4.7	3.6
W	5.1	5.3	1.7				.1					12.4	4.4
WNW	2.7	2.5	1.0		.1			.1				6.3	4.9
NW	1.3	2.7	3.5	3.3	1.0	1.2	.3	.1				13.4	11.2
NNW	1.0	1.9	3.0	5.1	2.7	2.5	.1					16.2	13.4
VARBL													
CALM												17.4	
	19.7	22.9	17.1	13.7	4.8	3.7	.5	.2				100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.2	4.6	4.3	.4	.3						13.1	9.7
NNE	.9	1.7	1.2	.3								4.1	5.9
NE	.2	.4										.6	3.3
ENE	.1	.4	.2	.2								1.0	6.8
E	.5	.2	.1									.9	3.6
ESE	.2	.9										1.1	4.5
SE	1.0	1.2	.8	.5	.1							3.5	6.7
SSE	1.1	1.7	2.9	2.9	1.0	.1						9.7	9.9
S	2.5	3.7	3.4	3.0	1.4	1.0						14.9	9.6
SSW	1.1	.9	.2	.2		.2						2.6	6.2
SW	1.2	.3	.4	.1	.1							2.2	5.7
WSW	.9	.9	.2		.1							2.0	4.6
W	.9	.5	.5	.3								2.3	5.8
WNW	.3	.3	.2	.8	.3		.3					2.3	13.2
NW	.2	.6	1.2	3.8	1.8	2.3	1.0					10.9	16.7
NNW	.6	1.5	2.5	6.6	5.7	3.0	.8	.3				21.0	16.1
VARBL		.1										.1	5.0
CALM												7.8	
	12.9	17.5	18.5	23.0		6.9	2.0	.3				100.0	10.3

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.2	5.5	8.2	1.1	.1	.1					18.1	10.7
NNE	.8	.9	.9	.3								2.8	6.1
NE	.6	1.3	.8									2.7	5.2
ENE	.5	.6	.1									1.3	3.5
E	.5	.9	.6									2.0	5.2
ESE	.9	.8	1.0	.1								2.7	5.8
SE	.3	1.8	2.7	1.3	.3							6.5	8.5
SSE	.6	3.1	4.1	4.9	1.7	.1						14.6	10.6
S	.9	1.6	1.0	2.8	2.3	.8						9.2	12.4
SSW		.1	.1	.2								.4	9.5
SW	.2		.3	.3								.9	10.0
WSW	.1	.1	.1	.5	.1							1.0	11.8
W	.2	.2		.6								1.1	9.4
WNW		.1	.3	.4	.4	.2						1.5	15.6
NW	.1	.4	.9	2.9	2.4	1.7	1.2	.1				9.7	18.4
NNW	.4	1.4	3.3	6.5	6.0	2.3	1.8	.4				22.2	16.5
VARBL													
CALM												3.2	
	7.4	15.5	21.6	29.1	14.3	5.2	3.1	.5				100.0	11.8

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.6	6.1	7.2	1.7	.1						18.8	10.5
NNE	.6	1.4	1.0	.3	.1							3.4	6.8
NE	.4	1.5	.8	.2								2.9	6.1
ENE	.9	1.1	.1	.1								2.2	4.7
E	1.2	1.7	.8	.2								3.9	5.1
ESE	.8	1.5	1.1	.3								3.7	6.1
SE	.8	2.2	3.0	2.2	.1							8.2	8.4
SSE	1.2	2.8	3.4	3.2	.5	.1						11.3	9.1
S	.9	1.1	1.1	2.2	1.1	.3						6.6	10.9
SSW	.2	.6	.5		.1							1.5	7.0
SW	.1	.3	.1	.2	.1							.9	9.5
WSW	.2	.2	.1									.5	4.8
W	.2	.6	1.0	.3		.1						2.3	8.1
WNW	.2	.2	.3	1.0	.4							2.2	12.8
NW	.2	.9	1.6	1.1	1.3	1.9	.5	.1				7.6	16.0
NNW	.4	1.5	3.0	7.4	3.5	2.4	.5					18.8	14.8
VARBL													
CALM												5.4	
	9.4	20.2	24.0	25.9	9.0	4.9	1.1	.1				100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	2.3	2.0	.5	.2						8.3	9.1
NNE	.6	.9	.5	.1								2.2	5.1
NE	.6	1.3	.6									2.6	5.3
ENE	.3	1.1	.2	.1		.1						1.8	6.4
E	.3	1.1	.4		.1							1.9	5.5
ESE	.3	.8	.6	1.0								2.7	8.2
SE	.4	1.8	1.5	.9	.2							4.8	7.7
SSE	1.0	2.5	1.7	.9	.2							6.2	6.9
S	1.4	4.0	2.2	.3		.1						8.0	5.8
SSW	.3	1.2	.5	.1								2.2	5.7
SW	1.1	.8	.2	.1								2.2	4.2
WSW	1.0	.6										1.6	3.0
W	2.8	2.3	.4	.2								5.7	4.1
WNW	1.6	3.0	.5	.3		.1						5.6	5.4
NW	.8	2.8	3.5	1.9	.9	1.2						11.1	10.6
NNW	.4	3.7	4.9	2.6	2.2	1.2	.8	.1				15.8	12.1
VARBL													
CALM												17.4	
	14.1	29.8	20.3	10.5	4.1	2.9	.8	.1				100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	1.8	2.3	.5	.2	.1					7.0	10.7
NNE	.2	.3	.1	.1								.8	6.1
NE		.4		.1								.5	6.8
NNE	.2	.1	.1									.4	4.0
E	.3	.2	.2									.8	4.7
ESE		.3	.1									.4	6.3
SE	.5	.6	.8	.1								2.0	6.3
SSE	.8	2.3	2.4	1.9	.1							7.4	7.9
S	2.0	2.8	3.8	.4	.4							9.5	6.7
SSW	.4	2.4	.2									3.0	4.9
SW	1.7	1.2	.2									3.1	3.3
WSW	3.0	1.2										4.2	2.9
W	5.2	3.2		.2								8.6	3.5
WNW	2.9	2.3	.4	.5	.1	.2						6.5	5.7
NW	1.5	3.0	3.1	1.7	.6	1.0	.3					11.3	9.9
NNW	.6	1.9	3.4	5.6	1.5	.9	.2					14.2	11.9
VARBL													
CALM												20.3	
	19.9	23.9	16.7	13.0	3.3	2.3	.6					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	.8	1.9	3.5	3.6	.7	.1	.0					10.7	10.0
NNE	.5	.7	.6	.2	.							2.0	6.2
NE	.3	.7	.3	.0								1.3	5.5
ENE	.3	.5	.1	.1		.0						1.0	5.1
E	.4	.6	.3	.0	.0							1.4	5.0
ESE	.3	.5	.4	.2								1.5	6.2
SE	.5	1.1	1.4	.7	.1							3.8	7.7
SSE	.8	2.0	2.4	2.3	.6	.0						8.1	9.2
S	1.6	2.7	2.2	1.7	.8	.3						9.3	8.6
SSW	.7	1.0	.3	.1	.0	.0						2.1	5.2
SW	1.1	.8	.2	.1	.0							2.2	4.5
WSW	1.6	.9	.1	.1	.0							2.8	3.9
W	3.3	2.8	.7	.3	.0	.0	.0					7.2	4.3
WNW	1.9	1.9	.6	.5	.2	.1	.0	.0				5.3	6.4
NW	.8	2.0	2.4	2.4	1.2	1.4	.5	.1				10.8	12.8
NNW	.7	1.9	3.4	5.7	3.2	1.7	.6	.1				17.2	13.9
VARBL		.0										.0	5.0
CALM												13.3	
	15.6	22.0	19.2	17.9	6.8	3.8	1.2	.2				100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.4	.9	2.2	.9	.1	.1					6.3	10.9
NNE	.4	.7	.4	.1								1.7	5.9
NE	.3	.9	.1									1.3	4.4
ENE	.3	.2	.1	.1								.8	5.1
E	.6	.3	.1									1.0	3.9
ESE	.2	.4	.1									.8	4.6
SE	.2	.7	.4	.2								1.6	6.9
SSE	1.7	1.4	1.3	.7								5.1	5.9
S	1.3	2.1	1.3	.3	.4	.1						5.7	6.9
SSW	.7	.7	.2	.1		.1						1.8	6.1
SW	.8	.9										1.7	3.7
WSW	2.0	2.0	.1									4.1	3.7
W	7.0	5.1	1.6	.4	.1							14.2	4.2
WNW	4.2	3.6	1.6									9.3	4.3
NW	1.7	3.2	2.9	3.1	1.3	1.0	.8	.2				14.2	11.6
NNW	.4	1.8	2.8	2.4	1.7	1.2	.2	.1				10.7	13.3
VARBL													
CALM												19.8	
	22.6	25.4	14.0	9.8	4.4	2.6	1.1	.3				100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625 ELLSWORTH AFB SD 73-82 NOV
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	2.4	2.4	.6	.3	.1					8.7	10.0
NNE		.7	.3									1.0	6.4
NE		.3	.2									.6	5.4
ENE	.6	.1	.2									.9	3.9
E	.4	.1	.4									1.0	5.2
ESE	.3	.7	.3									1.3	5.3
SE	.2	.7	.3									1.2	5.2
SSE	.2	1.0	1.2	.8								3.2	7.6
S	.3	1.6	2.0	.7	.2	.3						5.1	9.2
SSW	1.1	1.2	.3									2.7	4.2
SW	1.0	.4										1.4	3.1
WSW	1.6	2.0	.1									3.7	3.6
W	5.0	5.6	.8	.2								11.6	3.9
WNW	4.0	3.0	1.0	.2	.6	.1						8.9	5.4
NW	2.1	3.7	3.1	3.3	1.8	.7	1.0	.3				16.0	11.5
NNW	1.0	2.2	4.1	2.4	1.0	1.4	.3					12.6	11.6
VARBL													
CALM												20.2	
	16.8	25.1	17.0	10.1	4.1	2.9	1.4	.3				100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.8	2.4	1.8	2.7	1.0	.1	.1					8.9	10.3
NNE	.4	.3	.2	.2								1.2	5.7
NE	.3	.3	.4									1.1	5.0
ENE	.2	.2										.4	3.8
E	.4	.2										.7	3.5
ESE	.2	.3	.2									.8	5.1
SE	.2	.8	.8	.3								2.1	7.2
SSE	.9	1.4	1.1	1.2	.3	.1						5.1	8.5
S	.3	1.2	1.2	.2	.1	.2						3.3	8.3
SSW	.2	.2										.4	3.3
SW	1.0	.2	.1	.1	.1							1.6	4.7
WSW	2.1	1.6	.2	.1								4.0	3.8
W	6.9	6.0	.8	.2								13.9	3.7
WNW	2.9	2.9	1.1	.6	.1							7.6	5.1
NW	2.1	2.7	3.3	2.1	1.0	1.6	.9	.2				13.9	11.9
NNW	.2	3.0	2.8	3.4	2.1	.2	.1					11.9	11.5
VARBL													
CALM												23.1	
	19.3	23.9	14.1	11.2	4.8	2.2	1.1	.2				100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 903

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.1	2.4	3.7	.9							10.6	9.6
NNE	.2	1.1	.3									1.7	4.9
NE	.7	.4										1.1	3.1
ENE	.4	.4	.1	.1								1.1	4.9
E	.4	.7										1.1	3.7
ESE	.2	.2	.3									.8	5.9
SE	.9	.4	1.0	.6								2.9	7.3
SSE	1.6	1.7	2.4	2.0	.2	.4						8.3	9.0
S	2.4	1.8	2.0	1.3	.6							8.1	7.4
SSW	2.0	1.0	.1	.1								3.2	3.7
SW	1.0	1.8	.2									3.0	3.9
WSW	1.9	2.3		.3								4.6	4.2
W	1.6	2.0	.7	.2								4.4	5.0
WNW	1.3	.6	.7	.7	.4							3.7	8.0
NW	1.0	1.9	2.3	3.3	3.2	1.3	.8	.3	.1			14.3	14.8
NNW	1.1	1.8	3.1	5.7	2.8	1.0	.4					15.9	13.2
VARBL													
CALM												15.2	
	19.2	20.2	15.8	18.0	8.1	2.8	1.2	.3	.1			100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLIM

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.2	4.0	5.2	4.8	1.1	.4						16.8	9.7
NNE	.9	1.1	.6	.7								3.2	6.5
NE	.7	.8	.3									1.8	4.6
ENE	.8	.6	.3									1.7	4.1
E	.7	1.2	.6									2.4	4.6
ESE	.9	.3	.3	.1								1.7	4.9
SE	1.4	2.0	2.4	1.4	.1							7.4	7.2
SSE	1.4	2.3	2.7	3.2	.8	.1						10.6	8.9
S	1.2	3.1	3.3	1.9	.6	.4						10.6	8.8
SSW	.2	.3		.3								.9	8.4
SW	.7	.4		.2								1.3	5.3
WSW	.1	.1		.3								.6	9.6
W	.4	.2										.7	3.0
WNW	.1	.3	.1	.4	.6							1.6	12.1
NW	.3	.9	1.6	3.9	2.2	1.7	.9	.3				11.8	16.6
NNW	.4	1.6	4.8	7.0	4.7	1.4	.6					20.4	14.2
VARBL													
CALM												6.7	
	11.6	19.3	22.2	24.3	10.0	4.1	1.4	.3				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	3.0	6.1	3.2	1.2		.1					15.3	9.3
NNE	.9	1.0	1.3	.3								3.6	6.3
NE	1.0	1.0	.3	.2								2.6	4.7
ENE	.8	.8	.2									1.8	4.4
E	1.1	1.3	.4									3.2	4.9
ESE	1.2	1.7	.7	.1								3.7	4.8
SE	1.6	2.3	3.2	.6	.2							7.9	6.8
SSE	1.1	2.1	4.4	1.9	.1							9.7	8.0
S	1.3	1.7	1.4	1.3		.1						5.9	7.5
SSW	.6	.6	.2	.2								1.6	5.1
SW	.9		.1									1.0	2.8
WSW	.3		.2									.6	4.8
W	1.0	.4	.3	.6								2.3	6.3
WNW	.6	.4	.3	.6	.3							2.2	8.6
NW	.6	1.6	2.3	2.7	1.9	1.0	.4	.4				10.9	14.2
NNW	.7	1.2	3.2	5.9	2.8	1.7	.3					15.8	14.0
VARBL													
CALM												12.1	
	15.2	19.1	25.3	17.6	6.6	2.8	.9	.4				100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 900

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH
1800-2000
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	2.7	1.6	.3	.1						7.3	8.8
NNE	.2	1.3	.7	.3	.1							2.7	6.8
NE		.4	.3	.1								.9	6.6
ENE	.2	.3	.7									1.2	6.1
E	.7	.6	.1									1.3	3.6
ESE	.7	.7	.4									1.8	5.1
SE	1.3	1.4	.6	.3								3.7	5.0
SSE	.6	2.3	1.8	.9	.2							5.8	7.5
S	1.9	2.9	2.0	.8	.1							7.7	6.4
SSW	2.0	.3	.1									2.4	2.9
SW	1.7	.7	.1									2.4	3.3
WSW	1.7	1.3	.3	.2								3.6	4.2
W	3.1	3.3	.8	.2	.2							7.7	4.7
WNW	2.0	2.4	.3	.7								5.4	5.0
NW	1.7	1.6	2.6	1.7	1.0	.9	.6	.1	.3			10.3	12.7
NNW	1.0	2.6	3.3	4.4	2.6	1.2	.4	.1				15.7	12.7
VARBL													
CALM												20.1	
	19.7	23.9	16.8	11.2	4.6	2.2	1.0	.2	.3			100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.6	1.4	1.6	1.7	.4	.1						5.8	9.5
NNE	.4	.8	.6	.6		.1						2.4	7.8
NE	.2	.2	.1	.1								.7	5.7
ENE	.2	.4		.1								.8	5.4
E	.6	.1	.3									1.0	4.3
ESE	.3	.6	.2	.1								1.2	5.4
SE	.8	1.4	.8									3.0	5.5
SSE	1.4	1.7	2.0	.4								5.6	6.2
S	1.6	3.4	2.0	1.0	.1							8.1	6.6
SSW	1.0	.8	.1	.1	.1							2.1	4.8
SW	1.6	.7		.1	.1							2.3	3.8
WSW	1.9	2.2	.2	.2			.1					4.7	4.8
W	5.8	5.8	.3									11.9	3.6
WNW	2.3	2.7	1.3	.4								6.8	5.3
NW	1.2	2.1	3.1	2.8	.9	1.6	.3	.1	.2			12.3	12.5
NNW	.8	2.2	3.1	3.4	2.0	1.0	.3					12.9	12.3
VARBL													
CALM												18.4	
	20.7	26.6	15.8	11.0	3.7	2.8	.8	.1	.2			100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

NOV
MONTH

ALL WEATHER
CLAM

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.2	2.9	2.8	.8	.2	.1					10.0	9.7
NNE	.4	.9	.6	.3	.	.0						2.2	6.4
NE	.4	.6	.2	.1								1.2	4.8
ENE	.4	.4	.2	.0								1.1	4.7
E	.6	.6	.3									1.5	4.4
ESE	.5	.6	.3	.0								1.5	5.0
SE	.8	1.2	1.2	.4	.0							3.7	6.6
SSE	1.1	1.7	2.1	1.4	.2	.1						6.7	7.9
S	1.3	2.2	1.9	.9	.3	.2						6.8	7.6
SSW	1.0	.6	.1	.1	.0	.0						1.9	4.5
SW	1.1	.6	.1	.0	.0							1.8	3.8
WSW	1.4	1.4	.2	.2			.0					3.2	4.2
W	3.8	3.6	.7	.2	.0							8.3	4.1
WNW	2.2	2.0	.8	.4	.2	.0						5.7	5.7
NW	1.3	2.2	2.7	2.9	1.7	1.2	.7	.3	.1			13.0	13.1
NNW	.7	2.0	3.4	4.3	2.4	1.2	.3	.0				14.5	13.0
VARBL													
CALM												17.0	
	18.2	22.9	17.6	14.2	5.8	2.8	1.1	.3	.1			100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.2	1.2	2.6	3.1	1.1	.1		.2				8.5	11.9
NNE	.2	.4	.9									1.5	6.9
NE	.4	.2	.3									1.0	4.7
ENE	.4	.3										.8	3.3
E	.8	.9	.3									1.9	4.6
ESE	.4	.8	.1									1.3	4.0
SE	.3	.9	.3	1.0								2.5	8.2
SSE	.6	.9	1.1	1.2								3.8	8.0
S	1.8	1.6	1.2	.5	.1							5.3	6.0
SSW	.8	.5	.1									1.4	3.9
SW	1.2	.9	.1									2.2	3.5
WSW	2.0	2.6	.3									5.0	3.9
W	5.4	6.0	1.3	.3								13.0	4.3
WNW	3.3	2.5	1.1	.6	.2	.3						8.1	5.9
NW	1.2	1.5	2.2	2.2	1.6	1.9	.5	.1				11.2	13.7
NNW	.6	2.6	3.8	4.1	2.0	1.6	1.0	.2				15.9	13.5
VARBL													
CALM												16.8	
	19.8	23.7	15.6	13.0	5.1	4.0	1.5	.5				100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.5	2.0	2.4	2.6	.8	.3	.1					8.7	10.5
NNE	.5	.5	.5	.3								1.9	6.5
NE	.3	.2										.5	3.4
ENE	.2	.2										.4	3.8
E	.2	.8										1.0	3.8
ESE	.5	1.0	.2									1.7	4.0
SE	.6	.3	.2	.1								1.3	4.9
SSE	.5	1.1	1.3	.9								3.8	8.0
S	1.0	1.5	1.3	.4	.2							4.4	6.9
SSW	1.6	.5	.1									2.3	3.0
SW	1.1	1.6	.3	.1								3.1	4.5
WSW	1.6	2.4	.5									4.5	4.2
W	5.4	4.1	1.8	.1								11.4	4.3
WNW	3.3	3.4	.5	.5	.5	.1						8.5	5.6
NW	1.3	2.4	1.8	2.6	1.7	1.2	.8	.1				11.8	12.9
NNW	1.2	1.4	3.5	3.9	3.1	2.3	1.1	.3				16.8	15.0
VARBL													
CALM												17.8	
	20.0	23.4	14.6	11.5	6.3	3.9	1.9	.4				100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.1	1.9	2.3	3.5	1.0	.9						10.6	11.2
NNE		.8	.2	.1								1.1	6.4
NE	.1	.5										.6	3.8
ENE	.3	.4	.1									.9	4.3
E	.1	.3										.4	4.0
ESE	.4	.3		.1								.9	3.9
SE	.8	.5	.5	.2								2.0	5.4
SSE	.5	.9	.9	.1	.2	.1						2.7	7.8
S	.9	1.1	1.1	.3	.3	.1						3.8	7.4
SSW	.6	.6	.3									1.6	4.1
SW	1.1	1.7	.2									3.0	4.2
WSW	2.9	2.5	.4									5.8	3.9
W	5.3	3.9	1.0									10.1	3.7
WNW	3.2	2.4	1.1	1.5	.1	.1						8.4	6.2
NW	2.2	2.2	1.3	1.5	2.2	1.6	.3					11.2	12.0
NNW	.8	2.4	3.3	3.5	3.9	2.0	.8	.5				17.2	15.1
VARBL													
CALM												19.7	
	20.2	22.4	12.7	11.0	7.6	4.8	1.1	.5				100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

930

8
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	2.0	4.1	1.8	.9	.3					11.6	12.5
NNE	.4	.3	.4									1.2	5.9
NE	.4	.5	.5									1.5	5.3
ENE	.1	.1										.2	3.5
E	.3	.2										.5	3.6
ESE	.4	.5	.4									1.4	5.5
SE	.4	1.1	.6	.3	.1	.1						2.7	7.6
SSE	1.3	1.5	1.1	.6	.2		.1					4.8	7.5
S	2.3	2.4	1.8	1.0	.1	.2						7.7	6.6
SSW	1.7	1.4	.3	.1		.1						3.7	4.5
SW	1.3	1.0	.5									2.8	4.4
WSW	2.5	1.6	.8									4.8	4.1
W	2.6	1.6	.9									5.1	4.0
WNW	.9	1.4	.9	.9	.3	.5						4.8	9.7
NW	.8	1.8	1.4	1.8	1.7	2.4	1.3	.4				11.6	16.3
NNW	.9	1.6	2.4	4.5	3.3	3.1	.9	.1				16.8	15.5
VARBL													
CALM												18.7	
	17.2	18.6	14.1	13.3	7.6	7.3	2.6	.5				100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

930

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	2.7	3.2	5.7	2.3	.5	.1					16.1	11.1
NNE	.5	1.3	1.3	.4	.1							3.7	7.4
NE	.5	.9	.2									1.6	4.8
ENE	.6	.4	.2									1.3	4.1
E	.8	.6	.2									1.6	4.1
ESE	.5	.8	.4									1.7	5.1
SE	.2	1.2	1.5	.5	.1							3.5	7.7
SSE	1.1	2.4	3.3	2.3	.5	.1						9.7	8.8
S	4.1	3.0	3.7	1.2	.1	.1	.1					12.3	6.3
SSW	.4	1.0										1.4	4.2
SW	.4	.5	.3	.1								1.4	5.4
WSW	.2		.2	.2								.6	7.8
W	.8	.3	.4	.3								1.8	5.7
WNW	.3	.4	.6	1.2	.4	.2						3.2	11.5
NW	.1	.8	1.4	1.7	3.1	3.1	1.3	.2				11.7	19.0
NNW	.4	1.9	2.7	6.0	1.5	3.3	1.7	.2				17.8	15.9
VARBL													
CALM												10.4	
	12.7	18.2	19.8	19.7	8.2	7.4	3.2	.4				100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

930

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.2	5.7	5.3	1.2	.5						16.0	10.4
NNE	.6	.6	1.2	.3	.1							2.9	6.9
NE	.4	.5		.2								1.2	5.4
ENE	.2	.1	.8									1.1	6.6
E	.8	.9	.8									2.4	5.2
ESE	.5	.8	.1									1.4	4.0
SE	1.4	2.0	1.2	.4	.4							5.5	6.8
SSE	2.2	3.0	1.3	.5	.5							7.5	6.1
S	2.2	2.9	1.6	.8	.2	.2						7.9	6.5
SSW	1.1	.8	.3									2.2	3.9
SW	.4	.4										.9	3.6
WSW	.4	.6	.1	.3		.1						1.6	7.6
W	1.3	1.1	.6	.9	.2	.1						3.9	6.9
WNW	.5	1.1	1.0	.3		.2						3.1	7.7
NW	.9	1.4	1.8	2.9	1.7	1.7	.5	.1				11.1	14.3
NNW	.5	2.2	3.2	2.9	3.9	1.8	.8					15.3	14.5
VARBL													
CALM												16.1	
	14.6	20.6	19.7	14.5	8.3	4.7	1.3	.1				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

929

2
0508

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	2.3	3.0	.6	.4						8.4	10.6
NNE	.1	.3	.4	.2								1.1	8.4
NE	.1	.9	.4									1.4	6.1
ENE	.3	.6	.2									1.2	4.5
E	.4	.6	.4									1.5	5.0
ESE	.4	.6	.2	.1								1.4	5.1
SE	.6	.6	.5	.3	.1							2.3	7.0
SSE	1.5	1.8	.6	.4	.4							4.9	6.3
S	1.4	2.2	1.9	.4	.3							6.3	6.6
SSW	.8	.4	.3									1.5	4.3
SW	1.0	.8	.2	.1								2.1	4.5
WSW	2.3	1.7	.4	.2		.1						4.8	4.5
W	4.2	4.3	1.1	.1	.1	.1						9.9	4.5
WNW	2.6	1.9	1.3	.5	.1	.2						6.7	5.6
NW	1.6	2.5	1.9	2.3	1.4	1.1	.3					11.1	11.2
NNW	.6	1.9	2.7	4.8	2.5	2.1	.9					15.4	14.3
VARBL													
CALM												20.1	
	18.0	22.7	15.1	12.5	5.6	4.0	1.2					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 926

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.4	3.1	3.2	1.4	.6	.1					10.1	12.0
NNE	.1	.2	.3	.1								.8	7.4
NE		.4	.3									.8	5.7
ENE	.2		.3									.5	5.2
E	.4	.5	.8									1.7	5.1
ESE		.8	.3									1.1	5.7
SE	.5	.6	1.0	1.0								3.1	8.2
SSE	.8	1.1	.6	1.0								3.5	7.3
S	1.1	2.2	1.9	.8	.3							6.3	6.8
SSW	.6	.8	.1	.1								1.6	4.4
SW	1.2	1.1	.6									2.9	4.5
WSW	2.9	2.0	.1	.3								5.4	4.1
W	4.6	5.0	1.1	.4								11.1	4.3
WNW	2.6	4.0	1.3	1.0	.1	.1						9.1	5.6
NW	1.3	1.5	1.8	1.4	1.4	1.1	.5					9.1	12.8
NNW	1.0	1.9	3.5	4.4	2.5	1.9	.5					15.7	13.6
VARBL													
CALM												17.3	
	17.6	23.5	17.3	13.7	5.7	3.8	1.2					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.8	2.9	3.8	1.3	.5	.1	.0				11.3	11.2
NNE	.3	.6	.7	.2	.0							1.8	7.0
NE	.3	.5	.2	.0								1.1	5.1
ENE	.3	.3	.2									.8	4.6
E	.5	.6	.3									1.4	4.6
ESE	.4	.7	.2	.0								1.4	4.7
SE	.6	.9	.7	.5	.1	.0						2.9	7.2
SSE	1.1	1.6	1.3	.9	.2	.0	.0					5.1	7.5
S	1.8	2.1	1.8	.7	.2	.1	.0					6.7	6.6
SSW	1.0	.8	.2	.0		.0						2.0	4.0
SW	1.0	1.0	.3	.0								2.3	4.3
WSW	1.9	1.7	.4	.1		.0						4.1	4.4
W	3.7	3.3	1.0	.2	.0	.0						8.3	4.4
WNW	2.1	2.1	1.0	.8	.2	.2						6.5	6.6
NW	1.2	1.7	1.7	2.0	1.9	1.8	.7	.1				11.1	14.1
NNW	.8	2.0	3.1	4.3	2.8	2.3	.9	.2				16.4	14.7
VARBL													
CALM												17.1	
	17.6	21.6	16.1	13.7	6.8	5.0	1.7	.3				100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

7431

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

ALL
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.8	2.0	3.5	3.5	1.0	.3	.1	.0	.0			11.2	10.6
NNE	.4	.9	.9	.4	.0	.0						2.6	7.1
NE	.3	.7	.5	.1	.0	.0						1.6	6.0
ENE	.4	.7	.4	.1	.0	.0	.0					1.6	5.8
E	.6	1.1	.8	.3	.0	.0						2.8	6.3
ESE	.4	.8	.9	.4	.0	.0	.0					2.6	7.4
SE	.6	1.4	1.6	1.1	.2	.0	.0					4.9	8.2
SSE	.9	2.0	2.6	2.4	.6	.1	.0					8.7	9.3
S	1.4	2.6	2.4	1.9	.6	.2	.0	.0				9.2	8.6
SSW	.8	.8	.3	.1	.0	.0	.0					2.1	5.1
SW	.9	.8	.2	.1	.0	.0						2.1	4.7
WSW	1.4	1.2	.3	.2	.0	.0	.0					3.1	4.8
W	2.7	2.5	.7	.3	.1	.0	.0	.0				6.2	4.6
WNW	1.5	1.6	.6	.4	.2	.1	.0	.0				4.6	6.6
NW	.8	1.8	1.8	1.9	1.3	1.1	.5	.1	.0			9.4	13.1
NNW	.6	1.7	3.1	4.5	2.7	1.6	.5	.2	.0	.0		14.9	14.1
VARBL		.0										.0	5.0
CALM												12.3	
	14.7	22.7	20.8	17.7	6.8	3.6	1.1	.3	.0	.0		100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

87623

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

ALL
MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	3.1	6.8	7.6	2.7	1.0	.3	.1				22.4	11.9
NNE	.5	1.8	2.7	1.3	.1							6.4	8.0
NE	.4	1.4	1.5	.4								3.7	6.9
ENE	.4	1.1	1.0	.4	.1	.0						2.9	7.1
E	.6	1.8	2.0	.9	.2							5.6	7.8
ESE	.6	1.0	2.1	1.0	.2	.0	.0					5.0	8.5
SE	.5	1.8	2.8	2.3	.4	.0	.0					7.9	9.4
SSE	.6	1.4	2.5	3.2	.9	.2						8.8	10.5
S	.7	1.1	1.2	1.0	.4	.3	.0	.0				4.8	10.0
SSW	.2	.2	.1	.0								.5	4.5
SW	.2	.0	.0	.0								.3	3.9
WSW	.1	.1	.0									.3	3.5
W	.2	.2	.0									.4	3.8
WNW	.2	.2	.1	.1		.0	.0					.7	8.5
NW	.3	.6	.7	.8	.8	1.8	1.0	.3	.0			6.4	19.2
NNW	.5	1.3	3.1	5.0	4.1	3.4	1.2	.3	.0			18.8	16.5
VARBL													
CALM												5.3	
	7.0	17.0	26.6	23.9	9.9	6.7	2.7	.7	.0			100.0	11.1

TOTAL NUMBER OF OBSERVATIONS 6306

PART D

CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
N 1800																
N 1500					91.0											92.6
N 1200																
N 1000																
N 900																
N 800																
N 700																
N 600																
N 500										97.4						98.1
N 400																
N 300																
N 200																
N 100																
N 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0.
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.

Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:

Visibility ≥ 3 miles = 95.4%.

Visibility ≥ 2 miles = 96.9%.

Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥ 20000	64.0	64.8	64.8	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.4	65.4
≥ 18000	68.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	70.0	70.0
≥ 16000	68.3	69.5	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	70.0	70.0
≥ 14000	69.4	70.5	70.5	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.1	71.1
≥ 12000	70.3	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.2	72.2
≥ 10000	73.8	75.1	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6
≥ 9000	74.4	75.7	75.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2
≥ 8000	75.5	77.2	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.7	77.7
≥ 7000	77.2	79.0	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.6	79.6
≥ 6000	79.0	80.9	80.9	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.5	81.5
≥ 5000	80.4	82.3	82.5	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.4	83.4
≥ 4500	80.5	82.5	82.7	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.8	83.8
≥ 4000	81.4	83.4	84.1	84.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.5	85.5
≥ 3500	81.9	84.2	84.9	85.6	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.6	86.6
≥ 3000	82.9	85.2	85.9	86.6	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.7	87.7
≥ 2500	83.7	86.0	86.9	87.5	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.8	88.8
≥ 2000	84.4	87.3	88.2	88.8	89.8	89.8	89.8	89.9	89.9	89.9	90.1	90.1	90.2	90.2	90.4	90.4
≥ 1800	84.7	87.6	88.7	89.4	90.3	90.3	90.3	90.4	90.4	90.4	90.6	90.6	90.8	90.8	91.0	91.0
≥ 1500	85.1	88.1	89.1	89.8	90.8	90.8	90.8	90.9	90.9	91.1	91.1	91.2	91.2	91.2	91.4	91.4
≥ 1200	85.6	88.6	89.7	90.3	91.3	91.4	91.4	91.5	91.5	91.7	91.7	91.8	91.8	91.8	92.0	92.0
≥ 1000	86.1	89.2	90.3	91.1	92.4	92.5	92.5	92.6	92.6	92.8	92.8	92.9	93.0	93.2	93.3	93.3
≥ 900	87.0	90.1	91.2	91.9	93.2	93.3	93.3	93.4	93.4	93.7	93.7	93.8	93.9	94.1	94.2	94.2
≥ 800	87.6	91.1	92.3	93.0	94.3	94.4	94.4	94.5	94.5	94.7	94.7	95.2	95.3	95.5	95.6	95.6
≥ 700	88.2	91.7	92.9	93.7	94.9	95.1	95.1	95.3	95.3	95.5	95.5	95.9	96.1	96.3	96.5	96.5
≥ 600	88.5	92.0	93.2	94.0	95.3	95.5	95.5	95.8	95.8	96.0	96.0	96.5	96.7	96.9	97.0	97.0
≥ 500	88.9	92.7	93.9	94.6	95.9	96.1	96.1	96.5	96.5	96.7	96.7	97.1	97.4	97.6	97.8	97.8
≥ 400	89.0	93.2	94.4	95.2	96.5	96.7	96.7	97.0	97.0	97.2	97.2	97.6	98.0	98.3	98.5	98.5
≥ 300	89.1	93.5	94.7	95.5	96.8	97.0	97.0	97.3	97.3	97.5	97.5	98.0	98.3	98.6	98.8	98.8
≥ 200	89.1	93.5	94.9	95.7	97.1	97.3	97.3	97.7	97.7	98.0	98.0	98.5	98.8	99.1	99.4	99.7
≥ 100	89.1	93.5	94.9	95.7	97.1	97.3	97.3	97.7	97.7	98.0	98.0	98.5	98.8	99.1	99.5	100.0
≥ 0	89.1	93.5	94.9	95.7	97.1	97.3	97.3	97.7	97.7	98.0	98.0	98.5	98.8	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.7	≥2	≥1.7	≥1.4	≥1	≥.7	≥.5	≥.3	≥.25	≥.2	≥.0
NO CEILING	62.2	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 20000	69.0	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 18000	69.0	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 16000	69.1	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 14000	69.8	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 12000	70.6	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 10000	73.9	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 9000	73.9	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 8000	75.1	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 7000	76.2	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 6000	78.4	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 5000	80.1	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 4500	80.8	81.9	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 4000	81.5	82.9	83.2	83.4	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 3500	82.3	83.9	84.3	84.5	84.6	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
IV 3000	82.9	85.2	85.7	85.9	86.2	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 2500	84.4	86.7	87.4	87.6	88.1	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 2000	85.2	87.7	88.6	88.8	89.4	89.4	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	85.3	87.8	88.7	88.9	89.5	89.5	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1500	85.6	88.3	89.1	89.5	90.0	90.1	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 1200	86.6	89.4	90.2	90.6	91.2	91.3	91.6	91.6	91.6	91.7	91.9	91.9	91.9	91.9	91.9	91.9
IV 1000	88.0	90.8	91.6	92.0	92.6	92.7	93.1	93.1	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5
IV 900	88.3	91.2	92.0	92.5	93.0	93.1	93.5	93.5	93.7	93.8	94.0	94.0	94.0	94.0	94.0	94.0
IV 800	88.4	91.5	92.4	92.8	93.5	93.7	94.1	94.1	94.2	94.4	94.7	94.9	94.9	94.9	94.9	94.9
IV 700	88.9	92.0	93.0	93.4	94.2	94.3	94.8	94.9	95.1	95.3	95.6	95.8	95.9	95.9	95.9	95.9
IV 600	89.2	92.6	93.5	94.1	94.8	94.9	95.5	95.9	96.0	96.2	96.8	97.0	97.3	97.3	97.3	97.3
IV 500	89.5	93.0	94.0	94.5	95.3	95.4	95.9	96.3	96.5	96.7	97.2	97.4	97.7	97.7	97.7	97.7
IV 400	89.8	93.9	94.9	95.5	96.2	96.3	96.9	97.4	97.5	97.7	98.3	98.5	98.8	98.8	98.8	98.8
IV 300	89.8	93.9	94.9	95.5	96.2	96.3	96.9	97.4	97.5	97.8	98.4	98.6	98.9	98.9	98.9	98.9
IV 200	89.8	93.9	95.1	95.6	96.5	96.6	97.1	97.7	97.8	98.2	98.7	99.0	99.7	99.7	99.7	99.8
IV 100	89.8	93.9	95.1	95.6	96.5	96.6	97.1	97.7	97.8	98.2	98.7	99.0	99.8	99.8	99.8	100.0
IV 0	89.8	93.9	95.1	95.6	96.5	96.6	97.1	97.7	97.8	98.2	98.7	99.0	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000	54.8	55.5	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8
≥ 18000	62.6	63.2	63.5	63.5	63.5	63.5	63.5	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8
≥ 16000	62.9	63.5	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1
≥ 14000	63.1	63.8	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3
≥ 12000	63.7	64.3	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8
≥ 10000	65.3	66.0	66.3	66.3	66.3	66.5	66.7	66.7	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9
≥ 9000	71.1	71.8	72.2	72.2	72.4	72.6	72.6	72.7	72.7	72.8	72.9	72.9	73.0	73.0	73.0	73.0
≥ 8000	71.4	72.2	72.5	72.5	72.7	72.9	72.9	73.0	73.0	73.1	73.2	73.2	73.3	73.3	73.3	73.3
≥ 7000	74.2	74.9	75.3	75.3	75.5	75.7	75.7	75.8	75.8	75.9	76.0	76.0	76.1	76.1	76.1	76.1
≥ 6000	75.4	76.1	76.6	76.6	76.8	77.0	77.0	77.1	77.1	77.2	77.3	77.3	77.4	77.4	77.4	77.4
≥ 5000	77.0	77.8	78.3	78.3	78.5	78.7	78.7	78.8	78.8	78.9	79.0	79.0	79.1	79.1	79.1	79.1
≥ 4500	78.8	79.7	80.3	80.3	80.5	80.8	80.8	80.9	80.9	81.0	81.1	81.1	81.2	81.2	81.2	81.2
≥ 4000	79.0	79.9	80.6	80.6	80.9	81.1	81.1	81.2	81.2	81.3	81.4	81.4	81.5	81.5	81.5	81.5
≥ 3500	80.6	82.0	82.9	83.0	83.2	83.4	83.4	83.5	83.5	83.7	83.8	83.8	83.9	83.9	83.9	83.9
≥ 3000	81.2	82.7	83.5	83.7	83.9	84.1	84.1	84.2	84.2	84.3	84.4	84.4	84.5	84.5	84.5	84.5
≥ 2500	83.1	84.9	85.8	86.2	86.8	87.0	87.1	87.2	87.2	87.3	87.4	87.4	87.5	87.5	87.5	87.5
≥ 2000	83.5	85.4	86.3	86.8	87.4	87.6	87.7	87.8	87.8	88.0	88.1	88.1	88.2	88.2	88.2	88.2
≥ 1800	84.2	86.1	87.2	87.7	88.4	88.6	88.8	89.0	89.0	89.1	89.2	89.2	89.4	89.4	89.4	89.4
≥ 1500	84.6	86.7	87.7	88.3	88.9	89.1	89.6	89.8	89.8	90.0	90.1	90.1	90.3	90.4	90.4	90.4
≥ 1200	85.8	88.0	89.1	89.8	90.6	90.9	91.4	91.6	91.7	91.9	92.0	92.0	92.5	92.6	92.6	92.6
≥ 1000	86.2	88.5	90.0	91.0	91.8	92.0	92.8	93.0	93.1	93.3	93.4	93.4	93.9	94.0	94.0	94.0
≥ 900	86.3	88.6	90.1	91.1	91.9	92.2	92.9	93.1	93.2	93.4	93.5	93.5	94.2	94.3	94.3	94.3
≥ 800	86.3	88.7	90.2	91.2	92.2	92.4	93.1	93.5	93.8	94.0	94.2	94.2	94.8	94.9	95.1	95.2
≥ 700	86.5	89.0	90.6	91.7	92.7	92.9	93.8	94.2	94.4	94.6	94.8	94.8	95.5	95.7	95.8	96.0
≥ 600	86.7	89.5	91.3	92.5	93.4	93.7	94.5	95.1	95.3	95.6	95.8	95.8	96.5	96.7	96.8	97.0
≥ 500	86.7	89.6	91.4	92.6	93.5	93.8	94.6	95.3	95.6	95.9	96.2	96.3	97.0	97.2	97.3	97.5
≥ 400	86.8	89.8	91.8	93.0	94.1	94.3	95.2	96.0	96.5	96.8	97.1	97.2	97.8	98.1	98.2	98.5
≥ 300	86.9	89.9	91.9	93.1	94.3	94.5	95.4	96.2	96.7	97.0	97.3	97.4	98.1	98.3	98.4	98.8
≥ 200	86.9	89.9	91.9	93.2	94.4	94.6	95.5	96.5	96.9	97.2	97.5	97.7	98.4	98.6	98.7	99.1
≥ 100	86.9	89.9	91.9	93.2	94.7	94.9	95.8	96.8	97.2	97.5	97.8	98.1	98.9	99.1	99.4	100.0
≥ 0	86.9	89.9	91.9	93.2	94.7	94.9	95.8	96.8	97.2	97.5	97.8	98.1	98.9	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC

FORM 101-64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	54.0	54.0	54.5	54.7	55.2	55.3	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 20000	60.6	61.0	61.5	61.8	62.3	62.4	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IN 18000	61.1	61.4	61.9	62.3	62.7	62.8	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IN 16000	61.4	61.7	62.3	62.6	63.0	63.1	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IN 14000	63.2	63.5	64.1	64.4	64.8	64.9	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IN 12000	66.0	66.3	67.1	67.4	68.1	68.2	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IN 10000	72.7	73.1	73.9	74.2	74.8	74.9	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
IN 9000	73.5	74.0	74.7	75.1	75.7	75.8	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IN 8000	76.7	77.3	78.1	78.4	79.0	79.1	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IN 7000	77.4	78.2	79.1	79.5	80.1	80.2	80.6	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2
IN 6000	78.2	79.1	80.1	80.4	81.1	81.2	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.3	82.3
IN 5000	80.1	81.1	82.0	82.4	83.0	83.1	83.5	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.2	84.2
IN 4500	80.1	81.1	82.0	82.4	83.0	83.1	83.5	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.2	84.2
IN 4000	81.3	82.5	83.5	83.9	84.5	84.6	85.2	85.7	85.9	85.9	85.9	85.9	85.9	86.0	86.1	86.1
IN 3500	81.8	83.0	84.2	84.5	85.4	85.5	86.0	86.6	86.8	86.8	86.8	86.8	86.8	86.9	87.0	87.0
IN 3000	82.5	84.0	85.4	86.1	87.1	87.2	88.2	88.7	88.9	89.0	89.0	89.0	89.0	89.1	89.2	89.2
IN 2500	82.7	84.3	85.7	86.5	87.4	87.5	88.5	89.0	89.2	89.3	89.3	89.3	89.3	89.6	89.7	89.8
IN 2000	82.9	84.6	86.0	86.8	87.7	87.8	88.8	89.5	89.7	89.9	89.9	89.9	89.9	90.0	90.1	90.2
IN 1800	83.0	84.7	86.1	87.0	88.0	88.1	89.0	89.7	89.9	90.1	90.1	90.1	90.1	90.2	90.3	90.4
IN 1500	83.2	84.9	86.3	87.2	88.2	88.4	89.5	90.1	90.3	90.5	90.5	90.5	90.6	91.2	91.3	91.4
IN 1200	83.7	85.5	87.0	87.8	88.8	89.0	90.3	91.3	91.5	91.7	91.7	91.8	92.6	92.7	92.8	92.8
IN 1000	83.9	85.8	87.4	88.4	89.4	89.6	91.2	92.3	92.5	92.8	92.8	92.9	93.8	93.9	94.0	94.0
IN 900	83.9	85.8	87.4	88.4	89.4	89.6	91.2	92.3	92.5	92.8	92.8	92.9	93.8	93.9	94.0	94.0
IN 800	83.9	85.8	87.4	88.4	89.4	89.6	91.2	92.3	92.5	92.8	92.8	92.9	93.8	93.9	94.0	94.0
IN 700	84.0	85.9	87.5	88.5	89.6	89.8	91.6	92.8	93.2	93.8	93.9	94.0	94.8	94.9	95.1	95.5
IN 600	84.1	86.0	87.6	88.7	89.8	90.0	92.2	93.3	94.1	94.9	95.1	95.2	96.0	96.1	96.2	96.7
IN 500	84.1	86.0	87.7	88.9	90.0	90.2	92.4	93.7	94.4	95.4	95.7	95.8	96.7	96.8	96.9	97.3
IN 400	84.1	86.0	87.7	88.9	90.1	90.3	92.7	94.0	94.9	96.0	96.3	96.6	97.6	97.7	97.8	98.3
IN 300	84.1	86.0	87.7	88.9	90.1	90.3	92.8	94.2	95.2	96.5	96.8	97.0	98.2	98.3	98.4	98.9
IN 200	84.1	86.0	87.7	88.9	90.1	90.3	92.8	94.2	95.2	96.6	96.9	97.1	98.5	98.7	98.9	99.5
IN 100	84.1	86.0	87.7	88.9	90.1	90.3	92.8	94.2	95.2	96.6	96.9	97.1	98.5	98.7	98.9	99.7
IN 0	84.1	86.0	87.7	88.9	90.1	90.3	92.8	94.2	95.2	96.6	96.9	97.1	98.5	98.7	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	55.1	55.4	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 20000	62.7	63.0	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8
IV 18000	63.1	63.4	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 16000	63.2	63.5	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 14000	65.4	65.7	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.6	66.6	66.6
IV 12000	67.8	68.5	69.1	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7
IV 10000	74.1	74.7	75.4	75.7	75.8	75.8	75.8	75.8	75.9	76.0	76.0	76.0	76.1	76.1	76.1	76.1
IV 9000	74.3	75.1	75.8	76.1	76.2	76.2	76.2	76.2	76.3	76.5	76.5	76.5	76.6	76.6	76.6	76.6
IV 8000	76.6	77.4	78.2	78.7	78.8	78.8	78.8	78.8	78.9	79.0	79.0	79.0	79.1	79.1	79.1	79.1
IV 7000	78.1	79.2	80.2	81.0	81.2	81.2	81.3	81.3	81.4	81.5	81.6	81.6	81.9	81.9	81.9	81.9
IV 6000	79.2	80.5	81.5	82.3	82.5	82.5	82.6	82.6	82.7	82.8	83.0	83.0	83.3	83.3	83.3	83.3
IV 5000	80.1	81.4	82.5	83.3	83.5	83.5	83.8	83.8	83.9	84.0	84.2	84.2	84.5	84.5	84.5	84.5
IV 4500	80.6	81.9	83.0	83.9	84.1	84.1	84.3	84.3	84.4	84.5	84.7	84.7	85.1	85.1	85.1	85.1
IV 4000	81.7	83.1	84.2	85.2	85.5	85.5	85.7	85.8	85.9	86.1	86.3	86.3	86.7	86.7	86.7	86.7
IV 3500	82.0	83.4	84.5	85.5	85.9	85.9	86.2	86.3	86.5	86.7	86.9	86.9	87.2	87.2	87.2	87.2
IV 3000	83.2	85.1	86.1	87.2	87.6	87.7	88.3	88.4	88.5	88.7	88.9	88.9	89.2	89.2	89.2	89.2
IV 2500	83.4	85.3	86.3	87.4	87.8	88.0	88.5	88.6	88.7	88.9	89.1	89.1	89.5	89.6	89.6	89.6
IV 2000	83.9	85.7	86.8	88.0	88.7	88.8	89.4	89.7	89.9	90.2	90.5	90.5	90.9	91.1	91.1	91.1
IV 1800	84.0	85.8	86.9	88.1	88.8	88.9	89.5	89.8	90.0	90.3	90.6	90.6	91.0	91.2	91.2	91.2
IV 1500	84.8	86.7	87.7	89.0	89.9	90.0	90.6	91.0	91.2	91.5	91.8	91.9	92.4	92.6	92.6	92.6
IV 1200	85.1	86.9	88.0	89.2	90.1	90.2	90.9	91.3	91.5	91.9	92.3	92.4	92.8	93.1	93.2	93.2
IV 1000	85.4	87.5	88.8	90.2	91.1	91.2	91.9	92.6	92.8	93.4	93.8	93.9	94.3	94.6	94.8	94.8
IV 900	85.4	87.5	88.8	90.2	91.1	91.2	91.9	92.7	92.9	93.5	93.9	94.0	94.4	94.7	94.9	94.9
IV 800	85.4	87.5	88.8	90.2	91.1	91.2	91.9	92.7	93.2	93.9	94.2	94.3	94.7	95.2	95.5	95.5
IV 700	85.4	87.5	88.8	90.2	91.1	91.2	92.0	92.8	93.3	94.3	94.8	94.9	95.4	95.8	96.1	96.1
IV 600	85.6	87.8	89.1	90.5	91.4	91.5	92.4	93.1	93.7	94.7	95.3	95.4	95.9	96.3	96.7	96.7
IV 500	85.7	88.0	89.2	90.6	91.5	91.6	92.7	93.4	94.2	95.5	96.0	96.1	96.9	97.3	97.7	98.2
IV 400	85.7	88.0	89.4	90.8	91.7	91.8	92.9	93.7	94.4	95.7	96.3	96.5	97.2	97.6	98.1	98.5
IV 300	85.7	88.0	89.4	90.8	91.7	91.8	92.9	93.7	94.4	95.7	96.3	96.5	97.4	97.8	98.4	98.9
IV 200	85.7	88.0	89.4	90.8	91.7	91.8	92.9	93.8	94.5	95.9	96.6	96.7	97.8	98.4	99.0	99.7
IV 100	85.7	88.0	89.4	90.8	91.7	91.8	92.9	93.8	94.5	95.9	96.6	96.7	97.8	98.4	99.0	99.8
IV 0	85.7	88.0	89.4	90.8	91.7	91.8	92.9	93.8	94.5	95.9	96.6	96.7	97.8	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	56.9	57.4	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	58.0	58.0	58.1	58.1	58.1	58.2
≥ 20000	64.7	65.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.9	65.9	65.9	66.0
≥ 18000	64.9	65.5	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.2
≥ 16000	65.3	65.8	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.5	66.5	66.5	66.6
≥ 14000	66.5	67.1	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.8	67.8	68.0	68.0	68.0	68.1
≥ 12000	70.0	70.6	70.9	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.5	71.5	71.6	71.6	71.6	71.7
≥ 10000	76.5	77.1	77.3	77.6	77.6	77.6	77.7	77.7	77.7	77.7	78.0	78.2	78.2	78.3	78.3	78.4
≥ 9000	77.0	77.6	77.8	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.6	78.8	78.8	78.9	78.9	79.0
≥ 8000	79.2	80.0	80.4	80.9	80.9	80.9	81.0	81.1	81.1	81.3	81.5	81.5	81.6	81.6	81.6	81.7
≥ 7000	81.1	81.8	82.4	82.8	82.9	82.9	83.0	83.1	83.1	83.3	83.9	83.9	84.1	84.1	84.2	84.3
≥ 6000	81.8	82.6	83.1	83.7	83.8	83.8	83.9	84.0	84.0	84.2	84.7	84.7	84.9	84.9	85.1	85.2
≥ 5000	82.4	83.1	83.9	84.4	84.6	84.6	84.8	84.9	84.9	85.2	85.8	85.8	86.0	86.0	86.1	86.2
≥ 4500	82.6	83.3	84.1	84.6	84.8	84.8	85.1	85.2	85.2	85.4	86.0	86.0	86.2	86.2	86.3	86.5
≥ 4000	83.1	84.0	84.8	85.4	85.6	85.6	85.8	85.9	85.9	86.1	86.8	86.8	87.0	87.0	87.1	87.2
≥ 3500	83.4	84.3	85.2	85.7	85.9	85.9	86.1	86.2	86.2	86.5	87.1	87.1	87.3	87.3	87.4	87.5
≥ 3000	84.0	85.1	86.1	86.7	87.0	87.1	87.3	87.6	87.6	87.8	88.5	88.5	88.7	88.7	88.8	88.9
≥ 2500	84.5	85.6	86.7	87.3	87.6	87.7	88.0	88.3	88.3	88.5	89.1	89.1	89.4	89.4	89.5	89.6
≥ 2000	85.1	86.6	87.7	88.4	88.7	88.8	89.0	89.4	89.4	89.7	90.4	90.4	90.6	90.6	90.8	90.9
≥ 1800	85.3	86.8	88.0	88.6	88.9	89.0	89.2	89.6	89.6	89.9	90.6	90.6	90.9	90.9	91.0	91.1
≥ 1500	86.2	87.8	89.1	90.0	90.3	90.4	90.9	91.2	91.2	91.5	92.3	92.3	92.5	92.5	92.6	92.7
≥ 1200	86.5	88.1	89.5	90.4	90.8	90.9	91.3	91.6	91.7	92.2	92.9	92.9	93.1	93.1	93.3	93.5
≥ 1000	86.6	88.3	89.7	90.8	91.2	91.3	91.7	92.0	92.3	92.8	93.5	93.9	94.4	94.5	94.9	95.2
≥ 900	86.8	88.6	90.0	91.1	91.5	91.6	92.2	92.5	92.7	93.2	94.0	94.3	94.8	94.9	95.5	95.8
≥ 800	86.9	88.7	90.1	91.2	91.6	91.7	92.3	92.6	92.9	93.4	94.3	94.6	95.2	95.3	95.8	96.1
≥ 700	87.0	88.8	90.2	91.3	91.7	91.8	92.6	93.0	93.3	94.1	95.1	95.4	96.0	96.1	96.7	97.0
≥ 600	87.1	89.0	90.4	91.5	91.9	92.0	92.8	93.2	93.5	94.4	95.5	95.8	96.5	96.6	97.1	97.4
≥ 500	87.1	89.1	90.6	91.8	92.4	92.5	93.2	93.8	94.2	95.3	96.5	96.8	97.6	97.7	98.4	98.8
≥ 400	87.2	89.4	90.9	92.0	92.6	92.7	93.4	94.0	94.5	95.6	96.8	97.1	98.0	98.1	98.7	99.1
≥ 300	87.2	89.4	90.9	92.0	92.6	92.7	93.5	94.1	94.6	95.7	96.9	97.2	98.1	98.2	98.8	99.2
≥ 200	87.2	89.4	90.9	92.0	92.6	92.7	93.7	94.2	94.8	96.0	97.3	97.6	98.5	98.6	99.2	99.8
≥ 100	87.2	89.4	90.9	92.0	92.6	92.7	93.7	94.2	94.8	96.0	97.3	97.6	98.5	98.6	99.2	100.0
U	87.2	89.4	90.9	92.0	92.6	92.7	93.7	94.2	94.8	96.0	97.3	97.6	98.5	98.6	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

1800-2000

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	56.7	57.0	57.1	57.4	57.4	57.4	57.4	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 20000	65.4	65.7	65.8	66.1	66.1	66.1	66.1	66.5	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 18000	66.0	66.3	66.5	66.8	66.8	66.8	66.8	67.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000	66.1	66.5	66.6	66.9	66.9	66.9	66.9	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 14000	66.7	67.0	67.1	67.4	67.4	67.4	67.4	67.7	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 12000	69.0	69.6	69.7	70.0	70.0	70.0	70.0	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 10000	74.2	74.7	74.8	75.2	75.2	75.2	75.2	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 9000	74.8	75.4	75.5	75.8	75.8	75.8	75.8	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 8000	76.8	78.0	78.1	78.5	78.5	78.5	78.5	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 7000	78.8	80.4	80.5	81.0	81.0	81.0	81.1	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 6000	80.4	82.0	82.2	82.6	82.6	82.6	82.7	83.0	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	81.7	83.3	83.4	83.9	83.9	83.9	84.0	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 4500	82.0	83.9	84.0	84.4	84.4	84.4	84.5	84.8	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000	82.9	84.8	85.1	85.5	85.5	85.5	85.6	86.0	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3500	83.2	85.3	85.5	85.9	85.9	85.9	86.0	86.5	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3000	84.2	86.6	86.9	87.3	88.0	88.0	88.1	88.5	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2500	84.6	87.1	87.6	88.1	88.7	88.7	88.9	89.4	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2000	85.3	88.4	88.9	89.4	90.0	90.0	90.3	90.8	90.9	91.1	91.1	91.1	91.2	91.2	91.2	91.2
≥ 1800	85.6	88.7	89.2	89.7	90.3	90.3	90.6	91.1	91.2	91.4	91.4	91.4	91.5	91.5	91.5	91.5
≥ 1500	86.8	90.3	91.1	91.5	92.2	92.2	92.5	92.9	93.0	93.2	93.2	93.3	93.4	93.4	93.4	93.4
≥ 1200	87.3	91.0	91.7	92.4	93.1	93.1	93.4	93.9	94.0	94.2	94.2	94.3	94.5	94.5	94.5	94.5
≥ 1000	87.7	91.5	92.3	93.0	93.8	93.8	94.1	94.5	94.6	95.1	95.1	95.2	95.6	95.6	95.6	95.6
≥ 900	88.0	91.7	92.5	93.3	94.1	94.1	94.4	94.9	95.1	95.6	95.6	95.7	96.1	96.1	96.1	96.1
≥ 800	88.5	92.3	93.0	93.9	94.6	94.6	94.9	95.5	95.6	96.1	96.1	96.2	96.9	96.9	96.9	96.9
≥ 700	88.6	92.4	93.1	94.0	94.7	94.9	95.3	96.0	96.1	96.7	96.7	96.8	97.4	97.4	97.4	97.4
≥ 600	88.7	92.5	93.2	94.1	94.8	95.1	95.4	96.1	96.2	96.8	96.8	96.9	97.5	97.5	97.5	97.5
≥ 500	88.7	92.6	93.3	94.2	95.1	95.3	95.6	96.7	96.8	97.3	97.3	97.4	98.1	98.1	98.1	98.2
≥ 400	88.7	92.7	93.4	94.4	95.3	95.5	95.8	97.1	97.3	97.8	97.8	98.0	98.6	98.6	98.6	98.7
≥ 300	88.7	92.7	93.4	94.4	95.3	95.5	95.8	97.1	97.3	98.0	98.0	98.1	98.8	98.8	98.8	98.9
≥ 200	88.7	92.7	93.4	94.4	95.3	95.5	96.0	97.4	97.7	98.4	98.4	98.5	99.2	99.2	99.2	99.5
≥ 100	88.7	92.7	93.4	94.4	95.3	95.5	96.0	97.4	97.7	98.4	98.4	98.5	99.2	99.2	99.4	99.9
≥ 0	88.7	92.7	93.4	94.4	95.3	95.5	96.0	97.4	97.7	98.4	98.4	98.5	99.2	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0
NO CEILING	62.2	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.7	63.7	63.8
≥ 7000	67.4	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.9	68.9	69.0
≥ 18000	67.5	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	69.0	69.0	69.1
≥ 16000	67.6	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1	69.1	69.2
≥ 14000	68.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.1	70.1	70.2
≥ 12000	70.3	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	72.0	72.0	72.2
≥ 10000	73.5	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.3	75.3	75.4
≥ 9000	74.3	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	76.0	76.0	76.1
≥ 8000	75.8	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.7	77.7	77.8
≥ 7000	78.1	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.2
≥ 6000	80.0	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.3	82.3	82.4
≥ 5000	81.4	83.4	83.5	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3	84.4
≥ 4500	81.5	83.5	83.7	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.4	84.4	84.5
≥ 4000	81.9	84.2	84.4	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.5	85.5	85.6
≥ 3500	82.8	85.2	85.4	85.7	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.5	86.5	86.6
≥ 3000	84.3	86.9	87.1	87.4	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.3	88.4
≥ 2500	85.1	87.6	87.8	88.2	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.2	89.2	89.4
≥ 2000	85.7	88.8	89.2	89.7	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	91.2	91.2	91.3
≥ 1800	86.0	89.1	89.6	90.0	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.5	91.5	91.6
≥ 1500	86.6	90.0	90.4	90.9	91.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.5	92.5	92.6
≥ 1200	86.7	90.2	90.6	91.1	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.7	92.7	92.8
≥ 1000	87.1	90.6	91.2	91.6	92.8	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.7	93.7	94.1
≥ 900	87.4	91.4	92.0	92.5	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.5	94.5	94.8
≥ 800	88.0	92.2	92.8	93.2	94.4	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.3	95.3	95.9
≥ 700	88.3	92.8	93.4	93.9	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	96.3	96.3	97.0
≥ 600	88.4	92.9	93.5	94.0	95.5	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.7	96.7	97.3
≥ 500	88.5	93.1	93.8	94.2	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	97.3	97.3	98.1
≥ 400	88.6	93.3	94.0	94.4	96.5	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.8	97.8	98.7
≥ 300	88.7	93.4	94.1	94.5	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	98.1	98.1	98.9
≥ 200	88.7	93.5	94.3	94.7	96.9	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.4	98.4	99.8
≥ 100	88.7	93.5	94.3	94.7	96.9	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.4	98.4	99.8
≥ 0	88.7	93.5	94.3	94.7	96.9	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.4	98.4	99.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32	≥1/64	≥1/128	≥1/256	≥1/512
NO CEILING ≥ 20000	58.2	58.8	59.0	59.2	59.2	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5
≥ 18000 ≥ 16000	65.1	65.8	66.0	66.2	66.3	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000 ≥ 12000	65.4	66.0	66.3	66.5	66.5	66.5	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8
≥ 10000 ≥ 9000	65.5	66.2	66.4	66.6	66.7	66.7	66.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	67.0
≥ 8000 ≥ 7000	66.6	67.3	67.6	67.8	67.8	67.8	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1
≥ 6000 ≥ 5000	68.7	69.5	69.8	70.0	70.1	70.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.5
≥ 4500 ≥ 4000	73.7	74.5	74.8	75.0	75.2	75.2	75.3	75.3	75.4	75.4	75.5	75.5	75.5	75.6	75.6	75.6
≥ 3500 ≥ 3000	74.2	75.0	75.3	75.6	75.7	75.7	75.8	75.9	75.9	76.0	76.0	76.0	76.0	76.1	76.1	76.1
≥ 2500 ≥ 2000	76.2	77.3	77.6	77.9	78.0	78.0	78.1	78.2	78.2	78.3	78.3	78.3	78.3	78.4	78.4	78.5
≥ 1800 ≥ 1500	77.8	79.0	79.4	79.7	79.8	79.9	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.4	80.5	80.5
≥ 1200 ≥ 1000	79.3	80.5	81.0	81.3	81.4	81.5	81.6	81.7	81.7	81.8	81.9	81.9	81.9	82.0	82.1	82.1
≥ 900 ≥ 800	80.6	81.9	82.5	82.8	83.1	83.1	83.2	83.3	83.4	83.5	83.6	83.6	83.7	83.8	83.8	83.8
≥ 700 ≥ 600	80.9	82.3	82.8	83.2	83.4	83.4	83.6	83.7	83.7	83.8	83.9	83.9	83.9	84.1	84.1	84.1
≥ 500 ≥ 400	81.8	83.4	84.0	84.5	84.8	84.8	85.0	85.1	85.2	85.3	85.4	85.4	85.4	85.6	85.6	85.6
≥ 300 ≥ 200	82.3	84.0	84.7	85.1	85.5	85.5	85.7	85.9	85.9	86.0	86.2	86.2	86.3	86.3	86.3	86.4
≥ 100 ≥ 0	83.4	85.3	86.1	86.7	87.3	87.3	87.6	87.8	87.8	88.0	88.1	88.1	88.2	88.3	88.3	88.3
≥ 0	84.0	86.0	86.9	87.4	88.1	88.1	88.4	88.6	88.6	88.8	88.9	88.9	89.0	89.1	89.1	89.2
≥ 0	84.6	86.9	87.8	88.4	89.2	89.2	89.6	89.8	89.9	90.1	90.2	90.2	90.4	90.5	90.5	90.5
≥ 0	85.9	88.4	89.5	90.2	91.0	91.1	91.6	91.7	92.0	92.2	92.4	92.4	92.7	92.8	92.9	92.9
≥ 0	86.4	89.0	90.2	91.0	91.9	92.0	92.6	92.9	93.0	93.4	93.6	93.7	94.1	94.2	94.3	94.3
≥ 0	86.6	89.4	90.5	91.4	92.2	92.3	92.9	93.3	93.4	93.8	94.0	94.1	94.5	94.6	94.7	94.8
≥ 0	86.9	89.7	90.9	91.7	92.6	92.8	93.4	93.8	94.0	94.4	94.6	94.8	95.2	95.4	95.5	95.6
≥ 0	87.1	90.0	91.2	92.1	93.0	93.2	93.9	94.3	94.6	95.1	95.3	95.5	96.0	96.1	96.3	96.4
≥ 0	87.3	90.3	91.5	92.4	93.4	93.5	94.3	94.8	95.1	95.7	96.0	96.1	96.7	96.8	96.9	97.1
≥ 0	87.4	90.5	91.7	92.7	93.7	93.8	94.6	95.3	95.6	96.3	96.6	96.8	97.4	97.5	97.7	98.0
≥ 0	87.5	90.8	92.1	93.0	94.1	94.3	95.1	95.8	96.2	96.8	97.2	97.4	98.0	98.2	98.4	98.6
≥ 0	87.5	90.8	92.1	93.1	94.2	94.4	95.2	95.9	96.3	97.0	97.4	97.6	98.3	98.4	98.6	98.9
≥ 0	87.5	90.9	92.2	93.2	94.3	94.5	95.3	96.1	96.6	97.3	97.7	97.9	98.7	98.9	99.2	99.6
≥ 0	87.5	90.9	92.2	93.2	94.4	94.5	95.4	96.2	96.6	97.4	97.8	98.0	98.8	99.0	99.3	99.9
≥ 0	87.5	90.9	92.2	93.2	94.4	94.5	95.4	96.2	96.6	97.4	97.8	98.0	98.8	99.0	99.3	99.9

TOTAL NUMBER OF OBSERVATIONS 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS LST

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .1
NO CEILING ≥ 20000	58.8	59.1	59.1	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 18000	63.6	63.8	63.8	63.9	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 16000	63.6	63.8	63.8	63.9	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 14000	63.7	63.9	63.9	64.0	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 12000	64.9	65.1	65.1	65.2	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 10000	66.6	67.1	67.1	67.2	67.3	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 9000	66.7	67.2	67.2	67.3	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 8000	68.5	69.0	69.0	69.1	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 7000	69.5	70.1	70.1	70.2	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 6000	71.2	71.8	71.8	72.2	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 5000	72.5	73.4	73.4	73.7	73.8	73.8	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	73.1	74.0	74.0	74.3	74.4	74.4	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	73.8	74.7	74.7	75.1	75.3	75.3	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 3500	74.7	75.5	75.5	76.0	76.1	76.1	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 3000	76.4	77.4	77.6	78.2	78.3	78.3	78.5	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 2500	77.4	78.6	78.8	79.4	79.5	79.5	79.8	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 2000	77.6	79.4	79.6	80.2	80.4	80.4	80.6	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1800	78.0	79.8	80.0	80.6	80.7	80.7	80.9	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 1500	79.1	81.7	82.1	83.1	83.2	83.2	83.7	84.1	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1200	79.6	82.6	83.1	84.0	84.3	84.3	84.7	85.6	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2
≥ 1000	80.0	83.3	83.8	84.9	85.1	85.1	85.8	86.9	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 900	80.4	83.9	84.4	85.4	85.7	85.7	86.4	87.6	87.7	88.0	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800	80.5	84.0	84.5	85.6	85.9	85.9	86.7	88.0	88.4	88.9	89.2	89.2	89.2	89.2	89.2	89.2
≥ 700	80.5	84.3	84.7	85.8	86.3	86.3	87.1	88.6	89.1	89.6	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600	80.7	84.9	85.3	86.4	87.1	87.1	87.9	89.5	89.9	90.5	91.2	91.2	91.2	91.2	91.2	91.2
≥ 500	80.9	85.2	85.8	86.9	87.6	87.6	88.5	90.4	90.9	91.8	92.7	92.7	92.7	92.7	92.7	92.7
≥ 400	81.1	85.4	86.3	87.3	88.0	88.0	89.0	90.7	91.6	92.7	93.8	93.8	93.8	93.8	93.8	93.8
≥ 300	81.2	85.6	86.4	87.6	88.4	88.4	89.3	91.2	92.0	93.1	94.3	94.3	94.3	94.3	94.3	94.3
≥ 200	81.3	86.2	87.1	88.3	89.1	89.1	90.4	92.4	93.1	94.4	95.7	95.7	95.7	95.7	95.7	95.7
≥ 100	81.3	86.3	87.2	88.4	89.2	89.2	90.5	92.5	93.3	94.6	95.9	95.9	95.9	95.9	95.9	95.9
≥ 0	81.3	86.3	87.2	88.4	89.2	89.2	90.5	92.5	93.3	94.6	95.9	95.9	95.9	95.9	95.9	95.9

TOTAL NUMBER OF OBSERVATIONS 885

USAF ETAC FORM 24 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	57.3	58.2	58.3	58.5	58.5	58.5	58.5	58.7	58.7	58.9	59.0	59.0	59.0	59.0	59.2	59.2
≥ 20000	62.2	63.0	63.1	63.4	63.4	63.4	63.4	63.6	63.6	63.7	63.8	63.8	63.8	63.8	64.1	64.1
≥ 18000	62.2	63.0	63.1	63.4	63.4	63.4	63.4	63.6	63.6	63.7	63.8	63.8	63.8	63.8	64.1	64.1
≥ 16000	62.2	63.0	63.1	63.4	63.4	63.4	63.4	63.6	63.6	63.7	63.8	63.8	63.8	63.8	64.1	64.1
≥ 14000	62.2	63.0	63.1	63.4	63.4	63.4	63.4	63.6	63.6	63.7	63.8	63.8	63.8	63.8	64.1	64.1
≥ 12000	62.8	63.6	63.7	63.9	63.9	63.9	63.9	64.2	64.2	64.3	64.4	64.4	64.4	64.4	64.7	64.7
≥ 10000	65.4	66.2	66.4	66.7	66.8	66.8	66.8	67.0	67.0	67.1	67.3	67.3	67.3	67.3	67.5	67.5
≥ 9000	65.4	66.2	66.4	66.7	66.8	66.8	66.8	67.0	67.0	67.1	67.3	67.3	67.3	67.3	67.5	67.5
≥ 8000	67.4	68.3	68.6	68.8	68.9	68.9	68.9	69.1	69.1	69.3	69.4	69.4	69.4	69.4	69.6	69.6
≥ 7000	68.8	69.7	70.2	70.4	70.6	70.6	70.6	70.8	70.8	70.9	71.0	71.0	71.0	71.0	71.3	71.3
≥ 6000	70.1	71.0	71.5	71.9	72.0	72.0	72.0	72.2	72.2	72.3	72.5	72.5	72.5	72.5	72.7	72.7
≥ 5000	71.0	72.0	72.5	72.8	72.9	72.9	72.9	73.2	73.2	73.3	73.4	73.4	73.4	73.4	73.6	73.6
≥ 4500	71.5	72.6	73.0	73.4	73.5	73.5	73.5	73.8	73.8	73.9	74.0	74.0	74.0	74.0	74.2	74.2
≥ 4000	71.7	72.8	73.3	73.8	74.1	74.1	74.1	74.3	74.3	74.5	74.6	74.6	74.6	74.6	74.8	74.8
≥ 3500	72.7	73.9	74.3	74.8	75.2	75.2	75.2	75.4	75.4	75.5	75.7	75.7	75.7	75.7	75.9	75.9
≥ 3000	73.8	75.2	75.8	76.4	76.8	76.8	77.0	77.2	77.2	77.3	77.4	77.4	77.4	77.4	77.7	77.7
≥ 2500	74.9	77.0	77.7	78.3	78.8	78.8	79.2	79.4	79.4	79.6	79.7	79.7	79.8	79.8	80.0	80.0
≥ 2000	75.4	77.5	78.7	79.3	80.0	80.0	80.4	80.7	80.7	80.9	81.0	81.0	81.1	81.1	81.3	81.3
≥ 1800	75.4	77.7	78.8	79.4	80.1	80.1	80.5	80.9	80.9	81.0	81.1	81.1	81.2	81.2	81.4	81.4
≥ 1500	76.6	79.1	80.3	81.0	81.8	81.9	82.5	82.9	82.9	83.1	83.2	83.2	83.3	83.3	83.6	83.6
≥ 1200	77.7	80.6	81.9	82.6	83.7	83.8	84.5	85.1	85.1	85.3	85.7	85.7	85.8	85.8	86.1	86.1
≥ 1000	78.3	81.4	82.7	83.5	84.5	84.6	85.6	86.2	86.2	86.4	86.8	86.8	86.9	86.9	87.1	87.1
≥ 900	78.3	81.8	83.1	83.9	85.0	85.1	86.2	86.8	87.1	87.6	87.9	87.9	88.1	88.1	88.3	88.3
≥ 800	78.4	81.9	83.2	84.2	85.2	85.3	86.4	87.1	87.5	87.9	88.5	88.5	89.0	89.0	89.2	89.2
≥ 700	78.7	82.3	83.6	84.5	85.6	85.8	87.0	87.8	88.3	88.9	89.6	89.6	90.2	90.2	90.4	90.4
≥ 600	79.1	83.1	84.4	85.5	86.5	86.8	88.1	88.9	89.4	90.0	90.7	90.7	91.5	91.5	91.7	91.7
≥ 500	79.3	83.8	85.2	86.3	87.4	87.6	88.9	90.1	90.5	91.5	92.2	92.2	93.0	93.0	93.3	93.3
≥ 400	79.3	83.8	85.2	86.3	87.6	87.8	89.1	90.5	91.1	92.3	93.0	93.0	93.9	93.9	94.1	94.1
≥ 300	79.4	84.2	85.6	86.6	88.1	88.3	89.6	91.0	91.6	92.8	93.6	93.6	95.2	95.2	95.4	95.5
≥ 200	79.4	84.4	85.8	86.9	88.3	88.5	90.2	91.6	92.2	93.5	94.4	94.4	96.2	96.3	97.0	97.5
≥ 100	79.7	84.6	86.1	87.1	88.5	88.8	90.4	91.8	92.6	93.9	94.9	95.0	96.8	96.9	97.6	99.5
≥ 0	79.7	84.6	86.1	87.1	88.5	88.8	90.4	91.8	92.6	93.9	94.9	95.0	96.8	96.9	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 896

USAF ETAC FORM 7-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

6600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING ≥ 20000	52.4	52.6	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.2	53.2	53.3	53.4	53.5	53.7
W 18000	58.3	58.7	59.1	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.8	59.8	59.9	60.0	60.2	60.3
W 16000	58.5	59.0	59.3	59.7	59.7	59.7	59.8	59.8	59.8	59.8	60.0	60.0	60.2	60.3	60.4	60.5
W 14000	59.0	59.6	59.9	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.6	60.6	60.8	60.9	61.0	61.1
W 12000	61.1	61.7	62.1	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.8	62.8	62.9	63.0	63.1	63.2
W 10000	65.0	66.0	66.3	66.8	66.8	66.8	66.9	66.9	66.9	66.9	67.1	67.1	67.3	67.4	67.5	67.6
W 8000	65.1	66.2	66.5	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.4	67.4	67.5	67.6	67.7	67.8
W 7000	67.5	68.8	69.1	69.6	69.6	69.6	69.7	69.7	69.7	69.7	70.0	70.0	70.1	70.2	70.3	70.4
W 6000	69.1	70.6	70.9	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.7	71.7	71.9	72.0	72.1	72.2
W 5000	70.7	72.1	72.5	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.3	73.3	73.4	73.5	73.6	73.8
W 4500	71.6	73.2	73.5	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.3	74.3	74.5	74.6	74.7	74.8
W 4000	72.7	74.2	74.6	75.1	75.2	75.2	75.3	75.3	75.3	75.3	75.5	75.5	75.7	75.8	75.9	76.0
W 3500	73.4	75.1	75.4	76.1	76.2	76.2	76.4	76.5	76.6	76.6	77.0	77.0	77.1	77.2	77.3	77.4
W 3000	74.2	75.9	76.2	77.1	77.2	77.2	77.3	77.4	77.5	77.5	77.9	77.9	78.0	78.1	78.3	78.4
W 2500	75.3	77.4	77.9	79.0	79.1	79.1	79.6	79.7	79.8	79.8	80.1	80.1	80.3	80.4	80.5	80.6
W 2000	75.9	78.1	78.7	79.9	80.1	80.1	80.6	80.7	80.9	80.9	81.2	81.2	81.3	81.4	81.6	81.7
W 1800	77.5	80.0	80.7	82.2	82.7	82.7	83.6	83.8	83.9	83.9	84.3	84.3	84.4	84.5	84.6	84.8
W 1500	78.7	81.3	82.0	83.6	84.3	84.3	85.1	85.5	85.6	85.7	86.1	86.1	86.3	86.4	86.5	86.6
W 1200	79.2	82.0	82.7	84.4	85.2	85.2	86.3	86.9	87.0	87.2	87.6	87.6	87.8	87.9	88.1	88.2
W 1000	79.4	82.3	83.1	84.9	85.7	85.7	86.9	87.5	87.6	87.9	88.4	88.4	88.7	88.8	88.9	89.0
W 900	79.6	82.4	83.3	85.1	86.4	86.4	87.6	88.2	88.3	88.8	89.2	89.2	89.5	89.6	89.7	89.8
W 800	79.6	82.5	83.5	85.2	86.5	86.5	87.7	88.3	88.7	89.5	90.0	90.0	90.2	90.3	90.4	90.5
W 700	79.9	82.9	83.8	85.6	86.9	86.9	88.1	88.7	89.0	89.8	90.3	90.3	90.5	90.7	90.8	90.9
W 600	79.9	82.9	83.8	85.7	87.0	87.0	88.4	89.0	89.4	90.2	90.7	90.7	91.0	91.1	91.4	91.5
W 500	79.9	82.9	83.8	85.8	87.5	87.5	88.9	89.6	90.1	91.4	92.0	92.0	92.7	92.8	93.1	93.3
W 400	79.9	83.0	83.9	85.9	87.7	87.7	89.1	90.1	90.7	92.0	92.6	92.6	93.6	93.7	94.1	94.3
W 300	80.0	83.1	84.3	86.3	88.2	88.2	89.6	90.5	91.3	92.7	93.5	93.5	94.8	95.0	95.4	95.7
W 200	80.0	83.1	84.3	86.3	88.2	88.2	90.0	91.0	91.7	93.4	94.2	94.3	96.1	96.3	97.3	97.6
W 100	80.0	83.1	84.3	86.3	88.2	88.2	90.1	91.1	91.8	93.5	94.5	94.6	96.7	96.9	98.0	99.6
W 0	80.0	83.1	84.3	86.3	88.2	88.2	90.1	91.1	91.8	93.5	94.5	94.6	96.7	96.9	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 886

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

8
2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - statute miles															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	51.5	52.1	52.4	52.8	52.8	52.8	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.3	53.3
≥ 20000	60.8	61.7	62.1	62.5	62.5	62.5	62.8	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.3	63.3
≥ 18000	61.1	61.9	62.4	62.7	62.7	62.7	63.1	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.6	63.6
≥ 16000	61.4	62.2	62.7	63.1	63.1	63.1	63.4	63.6	63.7	63.8	63.8	63.8	63.8	63.8	63.9	63.9
≥ 14000	62.5	63.4	63.9	64.3	64.3	64.3	64.6	64.7	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.1
≥ 12000	65.4	66.5	67.0	67.3	67.3	67.3	67.7	67.8	67.9	68.0	68.0	68.0	68.0	68.0	68.2	68.2
≥ 10000	68.8	69.9	70.7	71.0	71.0	71.0	71.5	71.6	71.7	72.0	72.0	72.0	72.0	72.0	72.1	72.4
≥ 9000	68.8	69.9	70.7	71.1	71.2	71.2	71.7	71.8	72.0	72.2	72.2	72.2	72.2	72.2	72.3	72.7
≥ 8000	70.8	72.0	72.7	73.4	73.5	73.5	74.0	74.3	74.4	74.7	74.7	74.7	74.7	74.7	74.8	75.1
≥ 7000	71.5	72.7	73.4	74.1	74.2	74.2	74.8	75.1	75.3	75.5	75.5	75.5	75.5	75.5	75.6	76.0
≥ 6000	72.8	74.2	75.0	75.7	76.2	76.2	76.8	77.2	77.3	77.5	77.5	77.5	77.5	77.5	77.6	78.0
≥ 5000	73.7	75.1	76.0	76.7	77.5	77.5	78.2	78.6	78.7	78.9	78.9	78.9	78.9	78.9	79.1	79.4
≥ 4500	74.2	75.6	76.4	77.2	78.0	78.0	78.7	79.2	79.3	79.5	79.5	79.5	79.5	79.5	79.6	80.0
≥ 4000	75.3	76.8	77.8	78.5	79.5	79.5	80.5	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.5	81.9
≥ 3500	75.9	77.4	78.3	79.1	80.1	80.1	81.1	81.7	81.8	82.1	82.1	82.1	82.1	82.1	82.2	82.6
≥ 3000	77.2	78.8	79.8	80.5	81.5	81.5	83.0	83.6	83.8	84.3	84.3	84.3	84.3	84.3	84.4	84.7
≥ 2500	77.6	79.3	80.5	81.2	82.2	82.4	83.9	84.5	84.7	85.2	85.2	85.2	85.2	85.2	85.3	85.7
≥ 2000	78.5	80.2	81.4	82.2	83.4	83.6	85.4	86.2	86.5	87.5	87.5	87.5	87.5	87.5	87.6	87.9
≥ 1800	78.5	80.2	81.4	82.2	83.4	83.6	85.6	86.3	86.6	87.6	87.6	87.6	87.6	87.6	87.7	88.0
≥ 1500	78.7	80.5	81.7	82.5	83.8	83.9	86.0	86.9	87.2	88.2	88.2	88.2	88.2	88.2	88.3	88.6
≥ 1200	79.2	81.1	82.4	83.2	84.7	85.0	87.3	88.4	88.8	89.8	89.8	89.8	89.8	89.8	89.9	90.3
≥ 1000	79.3	81.2	82.5	83.3	85.0	85.3	87.8	89.1	89.5	90.7	90.7	90.7	90.7	90.8	90.9	91.2
≥ 900	79.3	81.2	82.5	83.3	85.1	85.4	88.2	89.7	90.1	91.2	91.2	91.2	91.2	91.4	91.4	91.8
≥ 800	79.3	81.2	82.5	83.3	85.1	85.4	88.3	90.2	90.7	92.0	92.1	92.1	92.1	92.2	92.2	92.7
≥ 700	79.3	81.2	82.5	83.3	85.1	85.6	88.5	90.5	91.1	92.4	92.7	92.7	92.8	92.8	92.9	93.3
≥ 600	79.3	81.2	82.5	83.4	85.2	85.7	88.6	90.8	91.4	92.9	93.1	93.1	93.3	93.3	93.4	93.7
≥ 500	79.4	81.4	82.7	83.7	85.4	85.9	89.3	91.7	92.3	94.1	94.4	94.4	94.6	94.6	94.7	95.0
≥ 400	79.4	81.5	83.0	83.9	85.7	86.2	89.8	92.4	93.1	95.1	95.9	95.9	96.0	96.0	96.1	96.4
≥ 300	79.4	81.5	83.1	84.0	86.2	86.6	90.3	92.9	94.0	96.0	96.7	96.7	96.8	96.8	97.0	97.4
≥ 200	79.4	81.5	83.1	84.0	86.2	86.6	90.4	93.4	94.4	96.4	97.4	97.6	98.0	98.0	98.2	98.9
≥ 100	79.4	81.5	83.1	84.0	86.2	86.6	90.5	93.5	94.6	96.6	98.1	98.3	98.7	98.7	98.9	100.0
≥ 0	79.4	81.5	83.1	84.0	86.2	86.6	90.5	93.5	94.6	96.6	98.1	98.3	98.7	98.7	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 885

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1	≥0
NO CEILING	52.6	54.1	54.5	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 20000	64.8	66.5	66.9	67.5	67.5	67.5	67.6	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 18000	64.9	66.7	67.0	67.8	67.8	67.8	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 16000	65.1	66.9	67.3	68.1	68.1	68.1	68.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 14000	66.1	67.8	68.2	69.1	69.1	69.1	69.3	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 12000	69.4	71.3	71.6	72.6	72.6	72.6	72.7	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 10000	72.7	74.7	75.1	76.0	76.0	76.0	76.1	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	72.8	74.8	75.2	76.1	76.1	76.1	76.2	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 8000	74.0	76.0	76.5	77.5	77.5	77.5	77.7	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 7000	74.8	76.8	77.3	78.4	78.5	78.5	78.6	78.8	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.2
≥ 6000	75.5	77.8	78.3	79.3	79.6	79.6	79.7	79.9	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.3
≥ 5000	76.5	78.8	79.3	80.4	80.6	80.6	80.7	81.0	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.3
≥ 4500	77.1	79.4	79.9	81.0	81.2	81.2	81.3	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9
≥ 4000	78.0	80.6	81.1	82.3	82.7	82.7	83.0	83.2	83.3	83.5	83.5	83.5	83.5	83.5	83.7	83.8
≥ 3500	78.4	81.0	81.4	82.6	83.2	83.2	83.5	83.7	83.8	83.9	83.9	83.9	83.9	83.9	84.2	84.3
≥ 3000	79.7	82.7	83.2	84.6	85.5	85.5	85.9	86.4	86.8	87.2	87.2	87.2	87.2	87.5	87.5	87.6
≥ 2500	79.9	83.2	83.7	85.1	86.1	86.1	86.5	87.0	87.4	87.8	87.8	87.8	87.8	88.1	88.1	88.2
≥ 2000	80.5	84.4	85.2	86.8	87.9	87.9	88.4	88.9	89.2	90.0	90.1	90.1	90.1	90.3	90.3	90.4
≥ 1800	80.5	84.4	85.2	86.8	87.9	87.9	88.4	88.9	89.2	90.0	90.1	90.1	90.1	90.3	90.3	90.4
≥ 1500	80.7	84.8	85.6	87.2	88.4	88.4	88.9	89.5	89.8	90.8	90.9	90.9	90.9	91.1	91.1	91.3
≥ 1200	81.4	85.5	86.4	88.2	89.8	89.8	90.3	90.9	91.3	92.3	92.6	92.6	92.6	92.8	92.8	92.9
≥ 1000	81.7	85.8	86.9	88.8	90.5	90.5	91.1	91.7	92.1	93.1	93.6	93.6	93.6	93.9	93.9	94.0
≥ 900	81.7	85.8	86.9	88.8	90.5	90.5	91.1	91.7	92.1	93.1	93.6	94.1	94.1	94.1	94.3	94.4
≥ 800	81.8	85.9	87.0	88.9	90.8	90.9	91.7	92.8	93.4	94.6	95.0	95.0	95.0	95.3	95.3	95.4
≥ 700	81.9	86.2	87.2	89.1	91.0	91.1	92.1	93.1	94.1	95.3	95.7	95.7	95.7	96.0	96.0	96.1
≥ 600	81.9	86.4	87.5	89.4	91.3	91.4	92.3	93.4	94.3	95.5	96.0	96.0	96.0	96.2	96.2	96.3
≥ 500	82.2	86.9	87.9	90.2	92.1	92.3	93.4	94.7	95.6	97.0	97.5	97.6	97.6	97.9	97.9	98.1
≥ 400	82.2	87.0	88.3	90.5	92.4	92.8	94.0	95.4	96.3	97.8	98.2	98.3	98.3	98.6	98.6	98.8
≥ 300	82.2	87.0	88.4	90.9	93.1	93.5	94.7	96.1	97.0	98.5	98.9	99.1	99.1	99.3	99.3	99.5
≥ 200	82.3	87.1	88.5	91.0	93.3	93.6	94.8	96.2	97.2	98.7	99.3	99.5	99.5	99.8	99.8	100.0
≥ 100	82.3	87.1	88.5	91.0	93.3	93.6	94.8	96.2	97.2	98.7	99.3	99.5	99.5	99.8	99.8	100.0
≥ 0	82.3	87.1	88.5	91.0	93.3	93.6	94.8	96.2	97.2	98.7	99.3	99.5	99.5	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 886

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0.01
NO CEILING	53.4	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	64.5	65.1	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 18000	65.1	65.8	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 16000	65.2	66.0	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 14000	66.2	66.9	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 12000	69.7	70.7	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IV 10000	73.9	75.3	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 9000	74.2	75.7	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 8000	75.4	77.3	78.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 7000	75.9	77.8	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 6000	77.5	79.4	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 5000	78.0	80.0	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 4500	78.4	80.4	81.3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 4000	79.1	81.1	82.2	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0
IV 3500	79.2	81.2	82.3	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
IV 3000	80.6	83.6	84.8	85.3	85.7	85.7	85.9	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3
IV 2500	81.1	84.3	85.5	86.4	86.9	86.9	87.4	87.8	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9
IV 2000	81.6	84.9	86.2	87.2	87.7	87.7	88.3	88.8	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0
IV 1800	81.7	85.1	86.4	87.5	87.9	87.9	88.5	89.0	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2
IV 1500	81.8	85.6	87.0	88.1	88.8	88.9	89.6	90.1	90.1	90.3	90.3	90.4	90.4	90.4	90.4	90.4
IV 1200	82.4	86.4	88.1	89.4	90.1	90.2	91.0	91.5	91.5	91.8	91.8	92.0	92.0	92.0	92.0	92.0
IV 1000	82.7	87.5	89.1	90.5	91.3	91.4	92.2	92.8	92.8	93.1	93.1	93.3	93.4	93.5	93.5	93.5
IV 900	82.7	87.5	89.1	90.8	91.5	91.6	92.4	93.1	93.1	93.5	93.6	93.7	93.9	94.0	94.0	94.0
IV 800	83.1	87.8	89.6	91.5	92.3	92.4	93.3	94.2	94.3	94.7	94.8	94.9	95.0	95.1	95.1	95.1
IV 700	83.1	88.4	90.4	92.6	93.4	93.5	94.6	95.6	95.7	96.2	96.3	96.5	97.0	97.4	97.4	97.4
IV 600	83.5	88.9	90.9	93.0	93.9	94.0	95.0	96.1	96.2	96.8	96.9	97.0	97.6	98.0	98.0	98.0
IV 500	83.5	89.5	91.6	94.1	94.9	95.2	96.2	97.3	97.4	98.3	98.5	98.6	99.2	99.5	99.5	99.5
IV 400	83.5	89.6	91.7	94.3	95.2	95.4	96.5	97.5	97.6	98.7	98.8	98.9	99.5	99.9	99.9	99.9
IV 300	83.5	89.6	91.7	94.3	95.2	95.4	96.5	97.5	97.6	98.7	98.8	98.9	99.6	100.0	100.0	100.0
IV 200	83.5	89.6	91.7	94.3	95.2	95.4	96.5	97.5	97.6	98.7	98.8	98.9	99.6	100.0	100.0	100.0
IV 100	83.5	89.6	91.7	94.3	95.2	95.4	96.5	97.5	97.6	98.7	98.8	98.9	99.6	100.0	100.0	100.0
IV 0	83.5	89.6	91.7	94.3	95.2	95.4	96.5	97.5	97.6	98.7	98.8	98.9	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

846

USAF ETAC

FORM 10-64

0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING -FEET-	VISIBILITY -STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ 0
NO CEILING ≥ 20000	56.5 64.7	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4	57.1 65.4
≥ 18000 ≥ 16000	65.2 65.5	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2	66.0 66.2
≥ 14000 ≥ 12000	66.3 68.7	67.0 69.4	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5	67.0 69.5
≥ 10000 ≥ 9000	74.0 74.2	75.1 75.3	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4	75.2 75.4
≥ 8000 ≥ 7000	75.1 75.5	76.1 76.8	76.2 77.0	76.2 77.0	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1	76.2 77.1
≥ 6000 ≥ 5000	76.5 77.9	77.8 79.3	77.9 79.4	77.9 79.4	78.0 79.7	78.0 79.7	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8	78.1 79.8
≥ 4500 ≥ 4000	78.5 79.8	79.9 81.2	80.0 81.3	80.0 81.3	80.3 81.6	80.3 81.6	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7	80.4 81.7
≥ 3500 ≥ 3000	80.4 81.8	81.8 83.7	81.9 84.0	81.9 84.0	82.2 84.3	82.2 84.3	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6	82.3 84.6
≥ 2500 ≥ 2000	82.4 82.5	84.4 85.0	85.1 85.8	85.1 85.8	85.5 86.2	85.5 86.2	85.8 86.6	85.9 87.1	85.9 87.1	85.9 87.2	85.9 87.2	85.9 87.2	85.9 87.2	85.9 87.2	85.9 87.2	85.9 87.2
≥ 1800 ≥ 1500	82.7 83.5	85.3 86.8	86.2 87.6	86.2 87.6	86.5 87.9	86.5 87.9	87.0 88.4	87.5 89.2	87.5 89.2	87.5 89.5	87.5 89.5	87.5 89.5	87.5 89.5	87.5 89.5	87.5 89.5	87.5 89.5
≥ 1200 ≥ 1000	83.7 83.8	87.6 88.5	88.5 89.5	88.5 89.5	88.9 89.8	88.9 89.8	89.5 90.4	90.5 91.5	90.5 91.5	90.8 91.7	90.8 91.7	90.8 92.0	90.8 92.0	90.8 92.0	90.8 92.0	90.8 92.0
≥ 900 ≥ 800	83.8 83.8	88.8 89.4	89.7 90.3	89.7 90.4	90.1 90.8	90.1 90.8	90.8 91.6	91.8 92.9	91.8 92.9	92.1 93.3	92.1 93.4	92.1 93.4	92.1 93.4	92.1 93.4	92.1 93.4	92.1 93.4
≥ 700 ≥ 600	83.9 84.4	90.0 90.4	90.9 91.4	91.0 91.5	91.5 92.0	91.5 92.0	92.3 92.0	93.6 94.1	93.6 94.1	94.3 94.8	94.6 95.0	94.6 95.0	94.6 95.4	94.6 95.4	95.0 95.6	95.2 95.7
≥ 500 ≥ 400	85.2 85.2	91.7 91.8	92.7 92.8	92.9 93.1	93.4 93.6	93.4 93.6	94.2 94.4	95.9 96.3	95.9 96.3	96.9 97.6	97.2 97.9	97.2 97.9	97.5 98.2	97.5 98.2	97.6 98.3	97.9 98.6
≥ 300 ≥ 200	85.2 85.2	91.8 92.0	92.8 92.9	93.1 93.3	93.6 93.7	93.6 93.7	94.4 94.6	96.3 96.5	96.3 96.5	96.6 96.8	97.8 98.0	98.0 98.5	98.0 98.5	98.3 98.9	98.5 99.1	98.6 99.2
≥ 100 ≥ 0	85.2 85.2	92.0 92.0	92.9 92.9	93.3 93.3	93.7 93.7	93.7 93.7	94.6 94.6	96.5 96.5	96.5 96.5	96.8 96.8	98.1 98.1	98.6 98.6	98.6 98.6	99.1 99.1	99.2 99.2	99.3 99.3

TOTAL NUMBER OF OBSERVATIONS 846

USAF ETAC FORM 1-64 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING -FEET-	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING	60.9	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000	63.7	64.8	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 18000	63.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 16000	63.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 14000	64.4	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 12000	65.5	66.5	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 10000	70.1	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 9000	70.4	71.7	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 8000	70.9	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 7000	71.5	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 6000	73.3	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000	75.8	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	76.0	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 4000	76.7	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 3500	78.0	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 3000	80.0	81.4	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2500	80.6	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 2000	81.8	84.0	84.0	84.0	84.4	84.4	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1800	82.0	84.4	84.4	84.4	84.8	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1500	82.6	85.3	85.6	85.7	86.1	86.1	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200	83.0	86.2	86.5	86.8	87.1	87.1	87.4	87.7	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1000	83.2	87.0	87.4	87.7	88.1	88.1	88.4	88.8	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 900	83.3	87.2	87.6	87.9	88.3	88.3	88.9	89.4	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 800	83.6	87.5	87.8	88.2	88.5	88.5	89.1	89.7	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 700	83.6	87.6	87.9	88.3	88.7	88.7	89.2	90.1	90.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1
≥ 600	83.8	87.9	88.3	88.8	89.2	89.2	90.0	90.8	91.3	91.6	92.1	92.1	92.1	92.1	92.1	92.1
≥ 500	84.6	89.2	89.6	90.3	90.9	90.9	91.7	92.9	93.4	94.2	94.7	94.7	94.7	94.7	94.7	94.7
≥ 400	84.6	89.4	89.7	90.4	91.0	91.0	92.0	93.1	94.1	95.0	95.6	95.6	95.6	95.6	95.6	95.6
≥ 300	84.6	89.5	89.8	90.5	91.3	91.3	92.2	93.4	94.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	84.9	89.8	90.2	90.9	91.6	91.7	92.7	94.1	95.0	96.3	97.2	97.2	97.2	97.2	97.2	97.2
≥ 100	85.0	90.0	90.3	91.0	91.7	91.8	92.8	94.2	95.2	96.6	97.4	97.4	97.4	97.4	97.4	97.4
≥ 0	85.0	90.0	90.3	91.0	91.7	91.8	92.8	94.2	95.2	96.6	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 886

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLINATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING ≥ 20000	55.4	56.1	56.2	56.4	56.4	56.4	56.5	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.7	56.7
≥ 18000	62.8	63.6	63.8	64.1	64.1	64.1	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.5	64.5
≥ 16000	63.1	63.9	64.1	64.4	64.4	64.4	64.5	64.5	64.5	64.6	64.6	64.6	64.7	64.7	64.8	64.8
≥ 14000	63.2	64.0	64.2	64.5	64.5	64.5	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.9	64.9
≥ 12000	63.8	64.6	64.9	65.1	65.2	65.2	65.3	65.3	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.6
≥ 10000	65.9	66.8	67.1	67.4	67.4	67.4	67.5	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.8	67.8
≥ 9000	69.6	70.7	71.0	71.3	71.4	71.4	71.5	71.5	71.6	71.6	71.7	71.7	71.7	71.7	71.8	71.8
≥ 8000	69.7	70.9	71.2	71.5	71.6	71.6	71.7	71.7	71.8	71.8	71.9	71.9	71.9	71.9	72.0	72.1
≥ 7000	71.2	72.5	72.8	73.2	73.2	73.2	73.3	73.4	73.5	73.5	73.6	73.6	73.6	73.6	73.7	73.8
≥ 6000	72.1	73.4	73.8	74.2	74.2	74.2	74.4	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.7	74.8
≥ 5000	73.5	74.8	75.2	75.6	75.8	75.8	75.9	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.3	76.4
≥ 4500	74.6	76.1	76.5	76.9	77.2	77.2	77.3	77.4	77.5	77.5	77.6	77.6	77.6	77.6	77.7	77.8
≥ 4000	75.2	76.7	77.1	77.5	77.7	77.7	77.9	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.3	78.4
≥ 3500	76.0	77.5	78.0	78.5	78.8	78.8	79.0	79.2	79.2	79.3	79.4	79.4	79.4	79.4	79.5	79.6
≥ 3000	76.7	78.3	78.7	79.2	79.6	79.6	79.8	79.9	80.0	80.0	80.1	80.1	80.2	80.2	80.3	80.4
≥ 2500	78.1	80.0	80.6	81.2	81.6	81.6	82.0	82.2	82.3	82.5	82.5	82.5	82.6	82.6	82.7	82.8
≥ 2000	78.7	80.9	81.5	82.2	82.7	82.7	83.2	83.5	83.6	83.7	83.8	83.8	83.9	83.9	84.0	84.1
≥ 1800	79.4	81.9	82.7	83.5	84.1	84.1	84.7	85.2	85.3	85.5	85.6	85.6	85.7	85.7	85.8	85.9
≥ 1500	79.5	82.1	82.9	83.7	84.3	84.3	84.9	85.4	85.5	85.7	85.8	85.8	85.9	85.9	86.0	86.1
≥ 1200	80.2	83.1	84.0	84.8	85.5	85.6	86.3	86.8	86.9	87.3	87.4	87.4	87.5	87.5	87.6	87.7
≥ 1000	80.8	84.0	85.0	85.9	86.7	86.8	87.6	88.3	88.5	88.9	89.1	89.1	89.2	89.2	89.3	89.4
≥ 900	81.1	84.6	85.6	86.6	87.5	87.6	88.5	89.3	89.5	90.0	90.2	90.2	90.4	90.5	90.5	90.6
≥ 800	81.1	84.8	85.8	86.9	87.8	87.9	89.0	89.8	90.1	90.6	90.8	90.9	91.1	91.1	91.2	91.3
≥ 700	81.2	85.0	86.0	87.2	88.1	88.2	89.4	90.4	90.7	91.4	91.7	91.7	92.0	92.0	92.1	92.2
≥ 600	81.4	85.3	86.4	87.5	88.5	88.7	89.9	91.0	91.4	92.2	92.6	92.6	93.0	93.1	93.2	93.3
≥ 500	81.6	85.7	86.8	88.0	89.0	89.1	90.4	91.6	92.0	92.8	93.2	93.2	93.7	93.8	93.9	94.0
≥ 400	81.9	86.3	87.4	88.8	89.9	90.0	91.4	92.8	93.3	94.4	94.9	94.9	95.4	95.5	95.6	95.8
≥ 300	81.9	86.4	87.6	89.0	90.2	90.3	91.7	93.3	93.9	95.2	95.7	95.8	96.3	96.4	96.6	96.7
≥ 200	81.9	86.5	87.8	89.2	90.5	90.7	92.1	93.6	94.3	95.6	96.2	96.3	97.0	97.2	97.3	97.5
≥ 100	82.0	86.7	88.0	89.4	90.7	90.9	92.4	94.1	94.8	96.2	96.9	97.0	98.0	98.1	98.4	98.8
≥ 0	82.0	86.8	88.0	89.4	90.7	90.9	92.5	94.2	94.9	96.3	97.2	97.3	98.3	98.4	98.8	99.7

TOTAL NUMBER OF OBSERVATIONS 6766

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0
NO CEILING ≥ 20000	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 18000	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 16000	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 14000	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 12000	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 10000	68.9	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 9000	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	71.6	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 7000	72.7	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 6000	73.7	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	74.6	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 4500	75.3	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4000	76.5	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3500	77.5	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 3000	79.1	80.2	80.5	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 2500	79.6	80.8	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2000	80.6	82.0	82.5	82.5	82.8	82.8	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 1800	81.1	82.5	82.9	82.9	83.2	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 1500	81.8	83.9	84.3	84.4	85.1	85.1	85.1	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1200	82.8	85.2	85.7	85.8	86.5	86.5	86.5	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1000	83.3	86.1	87.1	87.3	88.1	88.1	88.1	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 900	83.4	86.3	87.3	87.5	88.3	88.3	88.3	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 800	83.5	86.8	87.7	88.2	88.9	88.9	89.2	89.5	89.7	89.8	89.9	89.9	90.1	90.1	90.1	90.1
≥ 700	83.8	87.0	88.0	88.4	89.1	89.1	89.5	89.7	89.9	90.0	90.1	90.1	90.3	90.3	90.3	90.3
≥ 600	84.0	87.4	88.5	88.9	89.7	89.7	90.0	90.2	90.4	90.5	90.6	90.6	90.9	90.9	90.9	90.9
≥ 500	84.3	88.3	89.6	90.0	91.0	91.0	91.3	91.5	91.8	91.9	92.5	92.5	92.8	92.8	92.8	92.8
≥ 400	84.5	88.8	90.4	91.1	92.2	92.2	92.5	92.7	93.3	93.4	94.1	94.1	94.4	94.4	94.6	94.6
≥ 300	84.6	89.1	91.1	91.8	93.1	93.1	93.4	93.8	94.4	94.5	95.3	95.3	95.6	95.6	95.8	96.1
≥ 200	84.7	89.2	91.2	92.0	93.4	93.4	93.9	94.5	95.2	95.6	96.3	96.3	97.5	97.8	98.2	98.6
≥ 100	84.7	89.2	91.2	92.0	93.4	93.4	93.9	94.5	95.2	95.6	96.3	96.3	97.6	98.0	98.7	99.4
≥ 0	84.7	89.2	91.2	92.0	93.4	93.4	93.9	94.5	95.2	95.6	96.3	96.3	97.6	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO. CEILING ≥ 20000	56.2	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000	63.7	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 16000	64.1	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000	64.2	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 12000	64.4	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 10000	66.3	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 9000	68.9	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 8000	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 7000	71.3	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 6000	72.0	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	72.7	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 4500	74.1	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4000	74.4	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 3500	75.6	76.7	76.7	76.8	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 3000	76.0	77.3	77.3	77.4	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 2500	77.4	79.4	79.5	79.6	79.7	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 2000	78.3	80.4	80.5	80.6	80.8	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1800	79.4	82.0	82.2	82.4	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1500	80.2	82.9	83.0	83.2	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 1200	81.8	84.7	84.8	85.3	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 1000	82.4	85.7	85.9	86.3	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 900	82.9	86.3	86.8	87.3	87.6	87.6	87.6	87.6	87.6	87.8	88.0	88.1	88.1	88.2	88.2	88.2
≥ 800	83.1	86.7	87.1	87.7	88.1	88.2	88.3	88.5	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8
≥ 700	83.4	87.0	87.4	88.3	88.6	88.8	88.9	89.1	89.1	89.2	89.4	89.5	90.0	90.0	90.0	90.0
≥ 600	83.9	87.4	87.8	88.7	89.0	89.2	89.4	89.6	89.6	89.7	89.9	90.0	90.6	90.6	90.6	90.8
≥ 500	84.0	87.6	88.2	89.0	89.5	89.7	89.8	90.0	90.0	90.1	90.3	90.4	91.2	91.2	91.2	91.3
≥ 400	84.0	88.1	88.7	89.6	90.2	90.4	90.5	91.0	91.0	91.1	91.6	91.7	92.6	92.6	92.6	92.7
≥ 300	84.3	88.7	89.6	90.5	91.5	91.7	91.8	92.5	92.7	92.9	93.5	93.7	94.5	94.7	94.7	94.9
≥ 200	84.7	89.5	90.6	91.6	92.7	92.9	93.0	93.7	93.9	94.2	95.1	95.2	96.0	96.2	96.3	96.7
≥ 100	85.1	89.9	91.1	92.0	93.4	93.7	93.8	94.5	94.7	95.4	96.3	96.5	97.6	97.8	98.0	98.5
≥ 0	85.1	89.9	91.1	92.0	93.4	93.7	93.8	94.5	94.7	95.5	96.5	96.6	98.0	98.3	98.5	99.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	53.6	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 20000	58.7	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5
≥ 18000	59.4	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3
≥ 16000	59.4	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3
≥ 14000	60.1	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9
≥ 12000	61.9	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.8	62.8	62.8
≥ 10000	66.4	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3
≥ 9000	67.0	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.8	67.8	67.8
≥ 8000	70.2	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3
≥ 7000	71.2	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3
≥ 6000	72.6	73.4	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	74.1	74.1	74.1
≥ 5000	74.2	75.1	75.3	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.8	75.8	75.8
≥ 4500	74.6	75.6	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.3	76.3	76.3
≥ 4000	76.5	77.7	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.5	78.5	78.5
≥ 3500	77.6	78.8	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.5	79.5	79.5
≥ 3000	78.9	80.2	80.7	80.7	80.9	80.9	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.4	81.4	81.4
≥ 2500	79.1	80.6	81.2	81.2	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.8	81.8	81.8
≥ 2000	80.1	81.6	82.1	82.1	82.3	82.3	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.9	82.9	82.9
≥ 1800	80.2	81.7	82.2	82.2	82.6	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.8	83.1	83.1	83.1
≥ 1500	82.3	83.9	84.4	84.4	84.8	84.8	84.9	85.0	85.0	85.1	85.1	85.1	85.1	85.5	85.5	85.5
≥ 1200	83.0	84.9	85.5	85.5	85.9	85.9	86.0	86.2	86.2	86.3	86.3	86.3	86.3	86.7	86.7	86.7
≥ 1000	83.5	85.5	86.1	86.1	86.7	86.9	87.0	87.3	87.4	87.5	87.5	87.5	87.5	87.8	87.8	87.8
≥ 900	83.6	85.6	86.2	86.2	86.9	87.1	87.3	87.6	87.7	87.8	87.8	87.8	87.8	88.2	88.2	88.2
≥ 800	83.9	85.8	86.4	86.4	87.2	87.4	87.6	87.9	88.1	88.4	88.5	88.6	88.6	89.1	89.1	89.1
≥ 700	84.4	86.3	87.1	87.1	87.8	88.1	88.4	88.8	89.0	89.5	89.6	89.7	89.7	90.3	90.3	90.7
≥ 600	84.4	86.4	87.4	87.4	88.2	88.5	89.1	89.7	89.9	90.4	90.5	90.6	90.6	91.3	91.3	91.7
≥ 500	84.5	86.8	87.7	87.9	88.8	89.1	89.9	90.4	90.6	91.4	91.7	91.8	92.7	92.7	93.1	93.1
≥ 400	84.5	86.8	87.9	88.4	89.3	89.7	90.5	91.1	91.3	92.1	92.6	92.7	93.6	93.6	94.4	94.4
≥ 300	84.5	87.2	88.5	88.9	89.9	90.2	91.6	92.2	92.5	93.3	93.8	93.9	95.6	95.7	96.4	96.4
≥ 200	84.6	87.4	88.7	89.1	90.3	90.7	92.2	93.1	93.3	94.5	95.3	95.5	97.4	97.6	98.6	98.6
≥ 100	84.6	87.4	88.7	89.1	90.3	90.7	92.2	93.1	93.3	94.5	95.3	95.5	97.4	97.7	99.0	99.8
≥ 0	84.6	87.4	88.7	89.1	90.3	90.7	92.2	93.1	93.3	94.5	95.3	95.5	97.4	97.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	54.9	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 20000	62.8	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.7	63.7	63.7
≥ 18000	63.0	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.9	63.9	63.9
≥ 16000	63.0	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.9	63.9	63.9
≥ 14000	64.2	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	65.1	65.1	65.1
≥ 12000	66.1	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.0	67.0	67.0
≥ 10000	69.4	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.3	70.3	70.3
≥ 9000	69.8	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.8	70.8	70.8
≥ 8000	71.5	72.0	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.6	72.6	72.6
≥ 7000	72.4	72.9	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.4	73.4	73.4
≥ 6000	73.0	73.5	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.2	74.2	74.2
≥ 5000	74.2	74.7	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.6	75.6	75.6
≥ 4500	74.8	75.4	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.2	76.2	76.2
≥ 4000	76.1	76.8	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.6	77.6	77.6
≥ 3500	76.5	77.1	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	78.0	78.0	78.0
≥ 3000	78.2	78.9	79.0	79.2	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	80.2	80.2	80.2
≥ 2500	78.9	79.8	79.9	80.1	80.3	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	81.1	81.1	81.1
≥ 2000	79.5	80.3	80.4	80.6	80.9	81.0	81.0	81.0	81.0	81.0	81.2	81.2	81.2	81.7	81.7	81.7
≥ 1800	79.5	80.3	80.6	80.9	81.1	81.3	81.3	81.3	81.3	81.3	81.5	81.5	81.5	82.0	82.0	82.0
≥ 1500	81.8	82.9	83.2	83.4	83.8	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.3	84.8	84.8	84.8
≥ 1200	82.3	83.4	83.8	84.1	84.5	84.7	85.1	85.1	85.1	85.1	85.4	85.4	85.4	85.9	85.9	85.9
≥ 1000	82.9	84.4	84.9	85.3	85.8	86.0	86.5	86.9	86.9	87.2	87.2	87.2	87.2	87.7	87.7	87.7
≥ 900	83.3	85.1	85.6	86.0	86.6	86.8	87.4	87.8	87.8	88.2	88.2	88.2	88.2	88.7	88.7	88.7
≥ 800	83.4	85.2	85.8	86.2	86.8	87.0	87.8	88.5	88.6	89.0	89.1	89.2	89.2	90.1	90.1	90.2
≥ 700	83.9	85.8	86.7	87.3	87.8	88.1	89.1	90.0	90.2	90.9	91.0	91.1	91.1	91.9	92.0	92.3
≥ 600	84.2	86.1	87.2	87.8	88.4	88.6	89.7	90.5	90.8	91.4	91.5	91.6	91.6	92.6	92.7	92.9
≥ 500	84.4	86.6	87.6	88.5	89.0	89.2	90.4	91.7	91.9	92.6	92.9	93.0	93.0	94.1	94.2	94.5
≥ 400	84.4	86.6	88.0	89.0	89.7	89.9	91.2	92.6	92.8	93.5	94.0	94.1	94.1	95.2	95.5	95.6
≥ 300	84.4	86.6	88.0	89.1	90.0	90.2	91.9	93.7	94.1	95.1	95.6	95.8	95.8	96.9	97.3	97.8
≥ 200	84.4	86.6	88.0	89.1	90.0	90.2	91.9	93.8	94.2	95.2	95.7	96.0	96.0	97.2	97.6	98.7
≥ 100	84.4	86.6	88.0	89.1	90.0	90.2	91.9	93.8	94.2	95.3	95.8	96.1	96.1	97.4	98.0	98.1
≥ 50	84.4	86.6	88.0	89.1	90.0	90.2	91.9	93.8	94.2	95.3	95.8	96.1	96.1	97.4	98.0	98.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

720625 ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01
NO CEILING	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	50.0	50.0	50.1	50.1	50.1	50.1
≥ 2000	61.7	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.4	62.4	62.5	62.5	62.5	62.5
≥ 1800	61.8	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.5	62.5	62.6	62.6	62.6	62.6
≥ 1600	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.6	62.6	62.7	62.7	62.7	62.7
≥ 1400	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.5	63.5	63.7	63.7	63.7	63.7
≥ 1200	64.9	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.7	65.7	65.8	65.8	65.8	65.8
≥ 1000	68.1	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.8	68.8	68.9	68.9	68.9	68.9
≥ 900	68.8	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.6	69.6	69.7	69.7	69.7	69.7
≥ 800	71.2	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.3	72.3	72.4	72.4	72.4	72.4
≥ 700	72.5	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.5	73.5	73.7	73.7	73.7	73.7
≥ 600	73.7	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.7	74.7	74.8	74.8	74.8	74.8
≥ 500	75.2	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.6	76.6	76.6	76.6
≥ 450	76.0	76.8	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.3	77.3	77.4	77.4	77.4	77.4
≥ 400	78.4	79.1	79.5	79.9	80.0	80.0	80.0	80.0	80.0	80.2	80.2	80.3	80.3	80.3	80.3
≥ 350	79.0	79.8	80.1	80.5	80.6	80.6	80.6	80.6	80.6	80.9	80.9	81.0	81.0	81.0	81.0
≥ 300	81.2	82.3	82.6	83.0	83.1	83.1	83.1	83.1	83.1	83.4	83.4	83.5	83.5	83.5	83.5
≥ 250	81.6	83.1	83.5	84.0	84.1	84.1	84.1	84.1	84.1	84.7	84.7	84.8	84.8	84.8	84.8
≥ 200	82.3	84.0	84.4	85.1	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.9	86.0	86.0	86.0
≥ 180	82.8	84.5	84.9	85.6	85.7	85.7	85.7	85.7	85.7	86.3	86.3	86.5	86.6	86.6	86.6
≥ 150	84.2	86.1	86.6	87.3	87.6	87.6	87.6	87.6	87.6	88.3	88.4	88.5	88.6	88.6	88.6
≥ 120	84.2	86.3	86.9	87.6	88.0	88.1	88.1	88.1	88.1	88.7	88.8	88.9	89.0	89.0	89.0
≥ 100	84.7	87.6	88.2	89.0	89.4	89.5	89.7	89.9	89.9	90.6	90.6	90.9	91.0	91.0	91.0
≥ 90	84.8	88.2	88.7	89.6	90.0	90.1	90.3	90.6	90.6	91.4	91.5	91.6	91.7	91.7	91.7
≥ 80	85.2	88.6	89.1	90.0	90.4	90.5	90.9	91.3	91.3	92.0	92.2	92.3	92.7	92.7	92.7
≥ 70	85.2	88.8	89.4	90.2	90.8	90.9	91.2	91.6	91.7	92.7	92.8	92.9	93.3	93.3	93.3
≥ 60	85.5	89.4	90.1	91.1	91.9	92.0	92.4	92.8	92.9	94.0	94.1	94.2	94.6	94.6	94.6
≥ 50	85.7	89.7	90.4	91.5	92.5	92.6	93.0	93.5	93.8	95.4	95.5	95.6	96.3	96.3	96.6
≥ 40	85.7	89.8	90.6	91.9	93.0	93.1	93.5	94.1	94.3	95.9	96.0	96.1	96.9	97.0	97.6
≥ 30	85.9	90.0	90.9	92.2	93.4	93.5	94.1	94.6	94.8	97.1	97.2	97.3	98.1	98.2	98.8
≥ 20	85.9	90.0	90.9	92.2	93.4	93.5	94.1	94.6	94.8	97.1	97.2	97.5	98.4	98.5	99.5
≥ 10	85.9	90.0	90.9	92.2	93.4	93.5	94.1	94.6	94.8	97.1	97.2	97.5	98.4	98.5	99.7
≥ 0	85.9	90.0	90.9	92.2	93.4	93.5	94.1	94.6	94.8	97.1	97.2	97.5	98.4	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 230

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO. OBSERVATIONS	51.8	52.3	52.5	52.6	52.7	52.7	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 20000	62.8	63.3	63.5	63.7	63.8	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000	63.0	63.5	63.8	63.9	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 16000	63.0	63.5	63.8	63.9	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 14000	63.9	64.4	64.7	64.8	64.9	64.9	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 12000	66.5	67.0	67.2	67.3	67.4	67.4	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 10000	70.0	70.5	70.8	70.9	71.0	71.0	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 9000	70.5	71.1	71.3	71.4	71.5	71.5	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 8000	72.7	73.8	74.0	74.1	74.2	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 7000	73.9	74.9	75.2	75.3	75.4	75.4	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 6000	74.5	75.6	76.2	76.3	76.5	76.5	76.6	76.6	76.6	76.7	76.9	76.9	76.9	76.9	76.9	76.9
≥ 5000	77.7	78.8	79.5	79.6	79.7	79.7	79.8	79.8	79.8	79.9	80.1	80.1	80.1	80.1	80.1	80.1
≥ 4500	77.8	78.9	79.6	79.7	79.8	79.8	79.9	79.9	79.9	80.0	80.2	80.2	80.2	80.2	80.2	80.2
≥ 4000	80.6	81.8	82.5	82.7	82.9	82.9	83.0	83.0	83.0	83.1	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3500	81.2	82.4	83.0	83.2	83.4	83.4	83.5	83.5	83.5	83.7	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3000	82.0	83.4	84.2	84.5	84.7	84.7	84.9	84.9	84.9	85.1	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500	82.4	83.9	84.8	85.3	85.5	85.5	85.8	85.9	85.9	86.1	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2000	83.3	85.3	86.3	87.0	87.3	87.3	87.6	87.7	87.7	88.0	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1800	83.4	85.4	86.5	87.1	87.4	87.4	87.7	87.8	87.8	88.1	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1500	83.8	86.0	87.2	88.0	88.3	88.3	88.6	88.7	88.7	88.9	89.1	89.1	89.1	89.1	89.1	89.1
≥ 1200	84.3	86.7	88.1	88.8	89.1	89.1	89.6	89.7	89.7	89.9	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1000	84.8	88.1	89.7	90.4	90.9	91.0	91.4	91.6	91.6	92.0	92.3	92.3	92.4	92.4	92.4	92.4
≥ 900	85.2	88.4	90.1	90.9	91.3	91.4	91.8	92.0	92.0	92.5	92.7	92.7	92.8	92.8	92.8	92.8
≥ 800	85.5	88.8	90.8	91.5	91.9	92.0	92.6	92.8	92.8	93.3	93.5	93.5	93.8	93.8	93.9	93.9
≥ 700	85.5	88.8	90.8	91.7	92.3	92.4	92.7	93.4	93.7	94.2	94.4	94.4	94.6	94.6	94.7	94.7
≥ 600	86.0	89.4	91.3	92.3	92.9	93.0	93.5	94.1	94.3	94.8	95.1	95.1	95.3	95.3	95.6	95.6
≥ 500	86.1	89.7	91.7	93.0	93.8	93.9	94.4	95.2	95.7	96.3	96.8	96.8	97.0	97.0	97.3	97.3
≥ 400	86.1	89.7	91.7	93.0	93.8	93.9	94.4	95.2	95.8	96.5	97.0	97.0	97.2	97.2	97.7	97.8
≥ 300	86.3	89.9	91.9	93.2	94.0	94.1	94.6	95.4	96.0	97.0	97.5	97.5	98.1	98.1	98.6	98.7
≥ 200	86.3	89.9	91.9	93.3	94.1	94.2	94.7	95.5	96.1	97.1	97.7	98.0	98.6	98.7	99.2	99.4
≥ 100	86.3	89.9	91.9	93.3	94.1	94.2	94.7	95.5	96.1	97.1	97.7	98.0	98.6	98.7	99.2	99.4
≥ 50	86.3	89.9	91.9	93.3	94.1	94.2	94.7	95.5	96.1	97.1	97.7	98.0	98.6	98.7	99.2	99.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥6	≥4	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING ≥ 20000	57.3	57.5	57.5	57.6	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000	63.5	63.8	63.9	64.0	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 16000	63.9	64.1	64.2	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 14000	64.3	64.5	64.6	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 12000	66.6	66.8	66.9	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 10000	70.3	70.5	70.8	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 8000	70.8	71.0	71.2	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	73.4	73.7	74.0	74.2	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 4000	74.7	74.9	75.3	75.5	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3000	75.6	75.8	76.1	76.3	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2500	78.2	78.8	79.1	79.4	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 2000	80.4	81.3	81.6	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 1800	81.6	82.6	82.9	83.1	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 1600	82.0	83.1	83.7	83.9	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1400	82.7	84.0	84.7	85.1	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 1200	83.1	84.5	85.3	85.6	85.9	86.0	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000	83.2	84.7	85.5	85.8	86.1	86.2	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 800	83.9	85.5	86.2	86.8	87.2	87.3	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 600	84.5	86.3	87.3	88.1	88.5	88.6	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 400	85.3	87.3	88.4	89.2	89.8	89.9	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 300	85.4	88.0	89.0	89.9	90.6	90.8	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 200	85.6	88.3	89.4	90.3	91.3	91.4	91.9	92.0	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4
≥ 100	86.1	88.8	89.9	91.1	92.0	92.2	92.8	92.9	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3
≥ 50	86.1	88.9	90.1	91.4	92.4	92.5	93.3	93.4	93.9	94.0	94.4	94.5	94.8	95.3	95.4	95.6
≥ 20	86.1	89.1	90.4	91.9	93.0	93.2	94.2	94.6	95.3	95.6	96.0	96.2	96.6	97.0	97.1	97.6
≥ 10	86.2	89.2	90.9	92.4	93.7	93.7	94.6	95.1	95.7	96.0	96.5	96.7	97.1	97.8	98.0	98.6
≥ 0	86.2	89.2	90.9	92.4	93.7	93.7	94.6	95.1	95.7	96.1	96.8	97.1	97.6	98.4	98.8	99.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000	59.5	60.0	60.0	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.5
≥ 18000	63.7	64.2	64.2	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.7
≥ 16000	64.0	64.5	64.5	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.1
≥ 14000	64.0	64.5	64.5	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.1
≥ 12000	64.7	65.3	65.3	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.8
≥ 10000	66.6	67.1	67.1	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.6
≥ 9000	68.7	69.5	69.5	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	70.0
≥ 8000	69.1	69.7	69.7	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.2
≥ 7000	71.2	71.9	71.9	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.5
≥ 6000	72.3	73.0	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.5
≥ 5000	73.5	74.3	74.3	74.5	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.9
≥ 4500	75.7	76.8	76.8	77.0	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.4
≥ 4000	76.2	77.3	77.3	77.5	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	78.0
≥ 3500	78.0	79.2	79.2	79.5	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8	79.9
≥ 3000	79.5	80.8	80.8	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.4
≥ 2500	81.0	82.5	82.7	82.9	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.5
≥ 2000	81.6	83.2	83.5	83.8	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.4
≥ 1800	82.5	84.1	84.4	84.6	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.3
≥ 1500	82.8	84.4	84.7	84.9	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5	85.6
≥ 1200	84.0	85.7	86.0	86.2	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.9
≥ 1000	84.6	86.5	86.8	87.0	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.7
≥ 900	85.3	87.2	87.6	88.2	88.8	88.8	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.4	89.4	89.5
≥ 800	85.3	87.3	87.7	88.4	89.0	89.0	89.4	89.6	89.6	89.9	90.2	90.2	90.2	90.4	90.4	90.5
≥ 700	85.3	87.6	88.2	89.0	89.7	89.7	90.1	90.5	90.5	90.9	91.2	91.2	91.2	91.4	91.4	91.5
≥ 600	85.4	88.1	88.6	89.6	90.2	90.2	90.6	91.3	91.3	91.6	92.0	92.2	92.2	92.4	92.4	92.5
≥ 500	85.7	88.6	89.1	90.1	90.8	90.8	91.3	91.9	92.0	92.5	93.5	93.8	94.2	94.2	94.4	94.4
≥ 400	85.9	89.0	89.7	90.8	91.4	91.4	91.9	92.9	93.0	93.5	94.6	94.8	95.3	95.3	95.5	95.5
≥ 300	86.0	89.2	90.4	91.6	92.3	92.5	93.1	94.1	94.2	94.7	95.8	96.0	96.5	96.5	96.7	97.0
≥ 200	86.0	89.2	90.6	91.8	92.6	92.8	93.4	94.6	94.8	95.6	97.0	97.2	98.1	98.3	98.7	99.0
≥ 100	86.0	89.4	90.8	91.9	92.7	92.9	93.5	94.7	94.9	95.8	97.2	97.4	98.3	98.5	99.4	99.7
≥ 0	86.0	89.4	90.8	91.9	92.7	92.9	93.5	94.7	94.9	95.8	97.2	97.4	98.3	98.5	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS 1-24

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	55.5	55.8	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 20000	62.8	63.2	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5
≥ 18000	63.1	63.5	63.5	63.6	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 16000	63.1	63.5	63.6	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9
≥ 14000	63.8	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.6	64.6	64.6	64.6
≥ 12000	65.7	66.2	66.2	66.3	66.4	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000	68.9	69.3	69.4	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.7
≥ 9000	69.4	69.9	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.3	70.3	70.3	70.3
≥ 8000	71.6	72.3	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 7000	72.7	73.3	73.5	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8
≥ 6000	73.7	74.3	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9
≥ 5000	75.5	76.3	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.9	76.9	76.9	76.9
≥ 4500	76.0	76.8	77.0	77.1	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.5	77.5	77.5	77.5
≥ 4000	77.8	78.7	79.0	79.1	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.5	79.5	79.5	79.5
≥ 3500	79.6	79.6	79.8	80.0	80.1	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.4	80.4	80.4	80.4
≥ 3000	80.0	81.2	81.6	81.8	82.0	82.0	82.1	82.1	82.1	82.2	82.2	82.2	82.3	82.3	82.4	82.4
≥ 2500	80.5	82.0	82.4	82.6	82.8	82.9	83.0	83.0	83.0	83.1	83.2	83.2	83.3	83.3	83.3	83.3
≥ 2000	81.3	83.0	83.5	83.7	84.0	84.0	84.1	84.2	84.2	84.3	84.4	84.4	84.5	84.5	84.5	84.5
≥ 1800	81.7	83.3	83.8	84.1	84.4	84.4	84.5	84.6	84.6	84.7	84.7	84.8	84.9	84.9	84.9	84.9
≥ 1500	83.0	84.8	85.3	85.7	86.1	86.1	86.2	86.3	86.3	86.5	86.5	86.5	86.7	86.7	86.7	86.7
≥ 1200	83.5	85.6	86.2	86.7	87.1	87.1	87.3	87.4	87.4	87.5	87.6	87.6	87.7	87.7	87.7	87.7
≥ 1000	84.1	86.6	87.4	87.9	88.4	88.5	88.7	88.9	89.0	89.2	89.2	89.2	89.4	89.4	89.4	89.4
≥ 900	84.3	86.9	87.7	88.2	88.7	88.8	89.1	89.4	89.4	89.6	89.7	89.7	89.9	89.9	89.9	89.9
≥ 800	84.4	87.2	88.0	88.6	89.2	89.3	89.7	90.0	90.1	90.4	90.5	90.6	91.0	91.0	91.1	91.1
≥ 700	84.7	87.5	88.4	89.1	89.7	89.9	90.3	90.7	90.9	91.2	91.4	91.5	91.9	91.9	92.0	92.0
≥ 600	84.9	87.9	88.9	89.6	90.3	90.5	91.0	91.4	91.6	92.0	92.2	92.3	92.7	92.7	92.8	92.9
≥ 500	85.1	88.3	89.4	90.3	91.0	91.2	91.8	92.3	92.6	93.1	93.6	93.7	94.3	94.4	94.6	94.6
≥ 400	85.2	88.5	89.8	90.8	91.7	91.8	92.5	93.1	93.5	94.1	94.6	94.7	95.3	95.5	95.8	96.0
≥ 300	85.3	88.8	90.2	91.3	92.3	92.5	93.3	94.0	94.4	95.2	95.8	95.9	96.7	96.8	97.1	97.4
≥ 200	85.4	88.9	90.4	91.5	92.6	92.8	93.6	94.5	94.9	95.9	96.6	96.8	97.9	98.2	98.8	99.6
≥ 100	85.4	89.0	90.4	91.5	92.6	92.8	93.6	94.5	94.9	95.9	96.6	96.8	97.9	98.3	98.9	100.0
≥ 0	85.4	89.0	90.4	91.5	92.6	92.8	93.6	94.5	94.9	95.9	96.6	96.8	97.9	98.3	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7439

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING ≥ 20000	57.8	57.9	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2
18000	63.2	63.3	63.4	63.4	63.4	63.4	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7
16000	63.6	63.7	63.8	63.8	63.8	63.8	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
14000	63.8	63.9	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
12000	64.6	64.7	64.8	64.8	64.8	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0
10000	65.1	65.2	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6
9000	67.1	67.2	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6
8000	68.2	68.3	68.4	68.4	68.4	68.4	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7
7000	69.8	69.9	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2
6000	71.2	71.3	71.4	71.4	71.4	71.4	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.8	71.9	71.9
5000	72.2	72.3	72.4	72.4	72.4	72.4	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.8	72.9	72.9
4500	74.3	74.4	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.9	75.0	75.0
4000	75.0	75.1	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.6	75.7	75.7
3500	76.6	76.7	76.8	76.8	76.8	76.8	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.1	77.2	77.2
3000	77.6	77.9	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.3	78.4	78.4
2500	80.2	80.9	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.4	81.6	81.6
2000	81.6	82.3	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.9	83.0	83.0
1800	82.7	84.0	84.3	84.4	84.4	84.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.1	85.2	85.2
1500	82.7	84.0	84.3	84.4	84.4	84.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.1	85.2	85.2
1200	83.4	84.9	85.2	85.4	85.4	85.4	85.6	85.6	85.6	86.0	86.0	86.0	86.0	86.1	86.2	86.2
1000	84.8	86.4	86.8	87.0	87.1	87.1	87.4	87.4	87.4	87.7	87.7	87.7	87.7	87.8	87.9	87.9
900	85.7	87.3	87.7	88.0	88.1	88.1	88.4	88.4	88.4	88.7	88.7	88.7	88.7	88.8	88.9	88.9
800	86.0	88.1	88.6	89.0	89.1	89.1	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.8	89.9	89.9
700	86.2	88.3	88.8	89.2	89.3	89.3	89.7	89.7	89.7	90.0	90.0	90.0	90.0	90.1	90.2	90.2
600	86.3	88.8	89.3	89.9	90.0	90.0	90.3	90.7	90.7	91.1	91.1	91.1	91.1	91.2	91.3	91.3
500	86.7	89.1	89.8	90.3	90.4	90.4	90.8	91.2	91.2	91.7	91.8	91.8	91.8	91.9	92.0	92.0
400	86.8	89.8	90.4	91.1	91.3	91.3	91.7	92.4	92.4	92.9	93.0	93.1	93.1	93.2	93.3	93.3
300	87.1	90.7	91.2	91.9	92.2	92.2	92.8	93.8	93.8	94.2	94.4	94.6	94.6	94.8	94.9	95.0
200	87.4	91.1	91.7	92.7	93.1	93.1	93.8	95.1	95.2	95.7	95.9	96.0	96.0	96.2	96.3	96.4
100	87.4	91.3	92.1	92.9	93.8	93.8	94.8	96.1	96.2	97.0	97.7	97.9	98.1	98.8	98.9	99.2
0	87.4	91.3	92.1	92.9	93.8	93.8	94.8	96.1	96.2	97.0	97.8	98.0	98.4	99.1	99.3	99.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	56.1	56.3	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.0	57.0
≥ 20000	61.4	61.9	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.6	62.6
≥ 18000	61.6	62.0	62.3	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7
≥ 16000	61.9	62.3	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0
≥ 14000	62.2	62.7	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.3	63.3
≥ 12000	63.2	63.7	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.6
≥ 10000	65.0	65.4	65.8	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.3
≥ 9000	65.9	66.3	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.2
≥ 8000	67.9	68.3	68.7	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	69.2
≥ 7000	68.4	68.9	69.2	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.6	69.6	69.6	69.8
≥ 6000	69.9	70.3	70.7	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.2
≥ 5000	72.9	73.6	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.6
≥ 4500	73.7	74.3	74.7	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.3
≥ 4000	75.6	76.2	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.2
≥ 3500	76.4	77.1	77.4	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	78.1
≥ 3000	79.0	79.8	80.1	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.9
≥ 2500	80.0	81.1	81.9	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.7
≥ 2000	81.4	82.8	83.6	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.3
≥ 1800	81.8	83.1	83.9	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.6	84.6	84.6	84.8
≥ 1500	83.1	84.7	85.7	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.6
≥ 1200	84.2	85.8	86.9	87.3	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.9
≥ 1000	84.9	86.7	87.9	88.3	88.4	88.4	88.7	88.7	88.7	88.7	88.8	88.8	88.9	88.9	88.9	89.1
≥ 900	85.0	87.1	88.3	88.8	88.9	88.9	89.1	89.1	89.1	89.1	89.2	89.2	89.3	89.3	89.3	89.6
≥ 800	85.2	87.4	88.7	89.1	89.2	89.2	89.6	89.6	89.6	89.6	89.9	89.9	90.0	90.0	90.0	90.2
≥ 700	85.4	87.7	88.9	89.3	89.4	89.4	89.8	89.8	90.0	90.0	90.1	90.1	90.2	90.2	90.2	90.4
≥ 600	85.6	88.0	89.2	89.6	89.9	89.9	90.2	90.2	90.4	90.4	90.7	90.7	90.8	90.8	90.8	91.0
≥ 500	85.7	88.3	89.7	90.2	90.4	90.4	90.8	91.0	91.0	91.2	91.2	91.3	91.3	91.3	91.6	91.8
≥ 400	86.2	89.3	90.8	91.4	91.8	91.8	92.4	92.7	92.7	93.0	93.0	93.1	93.1	93.3	93.6	93.7
≥ 300	86.6	89.9	91.7	92.3	93.0	93.0	93.8	94.0	94.0	94.9	94.9	95.1	95.1	95.3	95.6	96.0
≥ 200	86.6	89.9	91.8	92.4	93.6	93.6	94.7	95.1	95.1	96.3	96.7	97.0	97.0	97.2	97.4	98.6
≥ 100	86.6	89.9	91.8	92.4	93.6	93.6	94.7	95.2	95.2	96.6	97.0	97.4	97.6	97.8	98.0	99.3
≥ 0	86.6	89.9	91.8	92.4	93.6	93.6	94.7	95.2	95.2	96.6	97.0	97.4	97.7	98.0	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	50.2 57.1	50.7 57.8	50.8 57.9	50.8 57.9	51.0 58.1	51.0 58.1	51.0 58.1	51.1 58.2	51.1 58.2	51.2 58.3	51.2 58.3	51.2 58.3	51.3 58.4	51.3 58.4	51.3 58.4	51.4 58.6
≥ 18000 ≥ 16000	57.6 57.8	58.2 58.4	58.3 58.6	58.3 58.6	58.6 58.8	58.6 58.8	58.6 58.8	58.7 58.9	58.7 58.9	58.8 59.0	58.8 59.0	58.8 59.0	58.9 59.1	58.9 59.1	58.9 59.1	59.0 59.2
≥ 14000 ≥ 12000	58.4 59.8	59.1 60.6	59.2 60.7	59.2 60.9	59.4 61.2	59.4 61.2	59.4 61.2	59.6 61.3	59.6 61.3	59.7 61.4	59.7 61.4	59.7 61.4	59.8 61.6	59.8 61.6	59.8 61.6	59.9 61.7
≥ 10000 ≥ 9000	63.0 63.8	63.9 64.7	64.0 64.8	64.2 65.0	64.6 65.3	64.6 65.3	64.6 65.3	64.7 65.4	64.7 65.4	64.8 65.6	64.8 65.6	64.8 65.6	64.9 65.7	64.9 65.7	64.9 65.7	65.0 65.8
≥ 8000 ≥ 7000	65.9 66.7	67.0 67.8	67.2 68.0	67.4 68.2	67.8 68.6	67.8 68.6	67.8 68.6	67.9 68.7	67.9 68.7	68.0 68.8	68.0 68.8	68.0 68.8	68.1 68.9	68.1 68.9	68.1 68.9	68.2 69.0
≥ 6000 ≥ 5000	67.4 69.3	68.6 70.7	68.8 70.9	69.0 71.1	69.3 71.4	69.3 71.4	69.3 71.4	69.4 71.6	69.4 71.6	69.6 71.8	69.6 71.8	69.6 71.8	69.7 71.9	69.7 72.0	69.7 72.0	69.8 72.1
≥ 4500 ≥ 4000	70.3 72.3	71.7 73.7	71.9 74.1	72.1 74.4	72.6 74.9	72.6 74.9	72.6 74.9	72.7 75.0	72.7 75.0	72.8 75.2	72.8 75.2	72.8 75.2	72.9 75.3	72.9 75.3	72.9 75.3	73.0 75.6
≥ 3500 ≥ 3000	72.9 74.9	74.3 76.3	74.8 77.1	75.1 77.6	75.6 78.2	75.6 78.2	75.6 78.2	75.9 78.8	75.9 78.8	76.0 78.8	76.0 78.8	76.0 78.8	76.1 78.9	76.1 78.9	76.2 79.0	76.3 79.1
≥ 2500 ≥ 2000	76.3 78.0	77.9 79.7	78.8 80.7	79.3 81.2	80.1 82.0	80.2 82.1	80.4 82.3	80.7 82.6	80.7 82.6	80.8 82.7	80.8 82.7	80.8 82.7	80.9 82.9	80.9 82.9	81.0 83.0	81.1 83.1
≥ 1800 ≥ 1500	78.3 79.4	80.0 81.3	81.0 82.4	81.6 83.0	82.3 83.8	82.4 84.0	82.7 84.2	82.9 84.4	83.0 84.6	83.1 84.7	83.2 84.8	83.2 84.8	83.3 84.9	83.3 84.9	83.3 84.9	83.4 85.0
≥ 1200 ≥ 1000	80.6 81.2	82.6 83.4	83.8 84.8	84.4 85.6	85.3 86.7	85.6 87.0	85.8 87.2	86.0 87.4	86.1 87.6	86.2 87.7	86.4 87.9	86.4 87.9	86.6 88.0	86.6 88.0	86.6 88.0	86.7 88.1
≥ 900 ≥ 800	81.4 81.7	83.7 84.0	85.0 85.4	85.8 86.2	86.9 87.3	87.2 87.7	87.6 88.0	87.8 88.2	87.9 88.3	88.0 88.4	88.2 88.7	88.2 88.7	88.3 88.8	88.3 88.8	88.3 88.8	88.4 88.9
≥ 700 ≥ 600	82.1 82.4	84.7 85.1	86.1 86.7	87.0 87.7	88.1 88.9	88.4 89.2	88.9 89.7	89.1 90.1	89.2 90.2	89.6 90.6	89.9 90.9	89.9 90.9	90.0 91.0	90.0 91.0	90.1 91.1	90.2 91.4
≥ 500 ≥ 400	82.7 82.7	85.8 86.3	87.4 88.1	88.6 89.3	89.9 90.9	90.2 91.2	90.8 91.9	91.3 92.6	91.4 92.9	91.9 93.4	92.3 94.1	92.6 94.3	92.9 94.7	93.0 94.8	93.0 95.0	93.3 95.3
≥ 300 ≥ 200	82.9 83.1	86.7 86.9	88.7 88.9	89.9 90.2	91.6 92.2	91.9 92.6	92.6 93.3	93.8 94.8	94.2 95.3	94.8 96.0	95.6 97.0	95.8 97.2	96.1 97.7	96.2 97.9	96.4 98.2	96.8 98.6
≥ 100 ≥ 0	83.1 83.1	86.9 86.9	88.9 88.9	90.2 90.2	92.2 92.2	92.6 92.6	93.3 93.3	94.9 94.9	95.4 95.4	96.3 96.3	97.6 97.6	97.8 97.8	98.2 98.2	98.6 98.6	99.2 99.2	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING ≥ 20000	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 18000	55.6	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
IV 16000	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 14000	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 12000	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 10000	60.9	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 9000	61.0	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 8000	62.3	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 7000	64.6	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 6000	65.3	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 5000	67.1	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
IV 4500	68.7	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 4000	71.0	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 3500	73.1	74.0	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 3000	76.1	77.0	77.7	78.0	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 2500	77.7	78.7	79.4	79.9	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 2000	79.9	81.6	82.3	82.9	83.2	83.2	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 1800	80.0	82.0	82.8	83.3	83.7	83.7	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 1500	81.4	83.4	84.2	84.8	85.1	85.1	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 1200	82.9	85.6	86.4	87.1	87.6	87.6	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IV 1000	84.1	87.2	88.1	88.8	89.2	89.2	89.2	89.3	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 900	84.6	87.8	88.8	89.4	89.9	89.9	89.9	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 800	85.3	88.9	89.9	90.6	91.0	91.0	91.0	91.1	91.1	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 700	85.6	89.4	90.6	91.2	91.7	91.7	91.8	91.8	92.4	92.4	92.9	92.9	92.9	92.9	93.0	93.0
IV 600	85.7	89.8	91.0	91.7	92.1	92.1	92.2	92.2	92.9	92.9	93.3	93.3	93.3	93.3	93.4	93.4
IV 500	85.9	90.3	91.9	92.7	93.6	93.7	93.9	94.0	94.7	94.7	95.3	95.3	95.3	95.3	95.4	95.4
IV 400	85.9	90.6	92.3	93.3	94.4	94.6	95.0	95.1	95.8	95.9	96.7	96.9	96.9	96.9	97.0	97.0
IV 300	85.9	90.6	92.4	93.7	95.1	95.2	95.9	96.2	96.9	97.0	97.9	98.1	98.2	98.4	98.6	98.6
IV 200	85.9	90.6	92.4	93.7	95.1	95.2	96.1	96.7	97.0	97.7	98.6	98.8	98.9	99.1	99.4	99.4
IV 100	85.9	90.6	92.4	93.7	95.1	95.2	96.1	96.7	97.4	97.7	98.6	98.8	99.0	99.3	99.9	99.9
IV 0	85.9	90.6	92.4	93.7	95.1	95.2	96.1	96.7	97.4	97.7	98.6	98.8	99.0	99.3	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
MOON: 1ST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ .005	≥ 0
NO CEILING ≥ 20000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 18000	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 16000	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 14000	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 12000	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 10000	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 9000	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000	62.3	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 7000	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 6000	65.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 5000	66.9	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 4500	68.6	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 4000	72.7	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3500	75.7	76.9	77.0	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 3000	79.1	80.7	81.0	81.0	81.0	81.0	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500	81.9	83.7	84.0	84.0	84.0	84.0	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2000	83.4	85.7	86.0	86.0	86.1	86.1	86.3	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8
≥ 1800	83.7	85.9	86.2	86.2	86.3	86.3	86.6	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1500	84.9	87.3	87.7	87.8	87.9	87.9	88.2	88.7	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1200	86.7	89.2	89.7	89.9	90.1	90.1	90.4	91.0	91.0	91.2	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1000	88.0	90.6	91.0	91.4	91.7	91.7	92.0	92.7	92.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 900	88.8	91.7	92.1	92.7	92.9	92.9	93.2	93.9	93.9	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 800	89.1	92.1	92.6	93.1	93.3	93.3	93.7	94.3	94.3	95.0	95.1	95.2	95.2	95.2	95.2	95.2
≥ 700	89.1	92.1	92.8	93.4	93.7	93.7	94.0	94.7	94.7	95.3	95.4	95.6	95.6	95.6	95.6	95.6
≥ 600	89.1	92.1	92.8	94.0	94.2	94.2	94.6	95.3	95.3	96.1	96.3	96.4	96.4	96.4	96.4	96.4
≥ 500	89.1	92.1	92.9	94.2	94.4	94.4	94.8	95.6	95.9	96.7	97.2	97.3	97.3	97.4	97.4	97.4
≥ 400	89.1	92.2	93.0	94.6	94.8	94.8	95.4	96.2	96.7	97.4	98.0	98.1	98.1	98.2	98.2	98.2
≥ 300	89.1	92.2	93.0	94.7	94.9	94.9	95.7	96.7	97.2	98.1	98.8	98.9	99.1	99.2	99.2	99.2
≥ 200	89.1	92.2	93.0	94.7	95.0	95.0	95.9	97.1	97.8	98.7	99.6	99.7	99.9	100.0	100.0	100.0
≥ 100	89.1	92.2	93.0	94.7	95.0	95.0	95.9	97.1	97.8	98.7	99.6	99.7	99.9	100.0	100.0	100.0
≥ 0	89.1	92.2	93.0	94.7	95.0	95.0	95.9	97.1	97.8	98.7	99.6	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 20000	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 16000	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 14000	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 12000	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 10000	60.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 9000	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 8000	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 7000	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 6000	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 5000	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4500	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4000	76.0	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3500	79.2	80.3	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 3000	82.6	84.4	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2500	83.9	86.2	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000	85.8	88.6	89.1	89.3	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 1800	85.8	88.6	89.1	89.3	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 1500	86.6	89.7	90.3	90.6	90.6	90.6	90.8	90.9	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1
≥ 1200	88.0	91.2	91.9	92.1	92.1	92.1	92.4	92.8	92.8	92.9	93.0	93.1	93.1	93.1	93.1	93.1
≥ 1000	88.7	92.2	92.9	93.1	93.1	93.1	93.4	93.8	93.8	94.0	94.1	94.2	94.2	94.2	94.3	94.3
≥ 900	89.7	92.9	93.6	94.0	94.0	94.0	94.3	94.7	94.7	94.9	95.0	95.1	95.1	95.1	95.2	95.2
≥ 800	89.8	93.3	94.1	94.6	94.6	94.6	94.9	95.2	95.2	95.7	96.0	96.1	96.2	96.2	96.3	96.3
≥ 700	89.6	93.6	94.4	95.1	95.1	95.1	95.4	95.8	95.8	96.3	96.7	96.8	96.9	96.9	97.0	97.0
≥ 600	89.9	93.7	94.7	95.6	95.6	95.6	95.9	96.2	96.2	96.8	97.1	97.2	97.3	97.3	97.4	97.4
≥ 500	89.9	94.0	95.0	96.0	96.0	96.0	96.3	96.7	96.7	97.3	97.7	97.8	97.9	97.9	98.0	98.0
≥ 400	89.9	94.0	95.1	96.2	96.2	96.2	96.6	96.9	96.9	97.6	98.1	98.2	98.3	98.3	98.4	98.4
≥ 300	89.9	94.0	95.1	96.2	96.2	96.2	96.6	96.9	96.9	97.6	98.6	98.6	98.9	98.9	99.0	99.0
≥ 200	89.9	94.0	95.1	96.2	96.3	96.3	96.7	97.1	97.1	98.3	99.3	99.6	99.9	99.9	100.0	100.0
≥ 100	89.9	94.0	95.1	96.2	96.3	96.3	96.7	97.1	97.1	98.3	99.3	99.6	99.9	99.9	100.0	100.0
≥ 0	89.9	94.0	95.1	96.2	96.3	96.3	96.7	97.1	97.1	98.3	99.3	99.6	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 18000	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 16000	58.6	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 14000	59.5	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 12000	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 10000	64.7	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 9000	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 8000	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 7000	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 6000	71.0	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 5000	72.7	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 4500	74.3	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4000	77.8	78.6	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 3500	80.3	81.5	81.8	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 3000	82.2	84.2	84.4	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 2500	83.2	85.4	85.8	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2000	85.1	88.0	88.4	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	85.5	88.4	88.9	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1500	87.1	90.0	90.8	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1200	87.8	90.9	91.7	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000	88.3	91.4	92.2	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900	89.0	92.2	93.0	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 800	89.0	92.5	93.3	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 700	89.2	92.8	93.5	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	89.3	92.9	93.8	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	89.3	92.9	93.8	94.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 400	89.8	93.3	94.2	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 300	90.3	93.9	94.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 200	90.0	93.9	95.1	96.1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100	90.0	93.9	95.1	96.1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 0	90.0	93.9	95.1	96.1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS U.T.

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 18000	62.9	63.1	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000	63.0	63.2	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 14000	63.7	63.9	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 12000	64.0	64.2	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 10000	64.6	64.8	64.9	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 9000	66.9	67.1	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 8000	67.4	67.7	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 7000	69.9	70.1	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 6000	71.2	71.4	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 5000	73.1	73.3	73.4	73.4	73.4	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	75.3	75.6	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4000	76.1	76.3	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3500	78.7	78.9	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 3000	80.2	80.9	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 2500	81.8	82.7	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 2000	83.1	84.2	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1800	83.9	85.0	85.4	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1500	84.1	85.3	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1200	85.7	87.2	87.7	87.8	87.8	87.8	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1000	86.2	88.2	88.8	88.9	89.1	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 900	86.9	89.2	89.8	90.0	90.2	90.2	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 800	87.4	89.9	90.6	91.1	91.3	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 700	88.1	90.7	91.7	92.2	92.4	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 600	88.4	91.1	92.2	92.8	93.0	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 500	88.6	91.3	92.4	93.0	93.2	93.2	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 400	88.7	92.0	93.4	94.0	94.2	94.2	94.4	95.0	95.0	95.0	95.0	95.0	95.2	95.3	95.3	95.3
≥ 300	88.7	92.1	93.6	94.1	94.4	94.4	94.7	95.7	95.7	95.8	95.8	95.8	96.0	96.1	96.1	96.1
≥ 200	88.8	92.8	94.4	95.2	95.8	95.8	96.0	97.2	97.3	97.4	97.7	98.1	98.2	98.2	98.2	98.2
≥ 100	88.8	92.8	94.4	95.2	95.9	95.9	96.3	97.8	98.0	98.6	98.8	99.3	99.6	99.7	99.7	99.7
≥ 0	88.8	92.8	94.4	95.2	95.9	95.9	96.3	97.8	98.1	98.7	99.1	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING	51.1	51.3	51.4	51.4	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 20000	58.5	58.8	58.9	58.9	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 18000	58.7	59.0	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 16000	59.0	59.3	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 14000	59.6	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 12000	60.7	61.0	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3
≥ 10000	63.5	63.8	63.9	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 9000	64.2	64.5	64.6	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 8000	66.3	66.8	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	67.8	68.2	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 6000	69.0	69.5	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 5000	71.1	71.7	71.8	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1	72.1
≥ 4500	72.2	72.8	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.3
≥ 4000	75.1	75.8	76.0	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3
≥ 3500	76.9	77.9	78.1	78.3	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.6	78.6
≥ 3000	79.5	80.7	81.2	81.4	81.5	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8
≥ 2500	81.0	82.4	83.0	83.2	83.4	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7
≥ 2000	82.5	84.4	85.0	85.3	85.5	85.5	85.6	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.9	85.9
≥ 1800	82.7	84.7	85.2	85.6	85.7	85.7	85.9	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.2	86.2
≥ 1500	84.0	86.1	86.7	87.1	87.3	87.3	87.5	87.6	87.6	87.7	87.7	87.7	87.7	87.8	87.8	87.8
≥ 1200	85.1	87.5	88.2	88.6	88.9	88.9	89.1	89.2	89.3	89.4	89.4	89.5	89.5	89.5	89.6	89.6
≥ 1000	86.0	88.5	89.3	89.7	90.0	90.1	90.3	90.5	90.5	90.7	90.7	90.7	90.8	90.8	90.9	90.9
≥ 900	86.4	89.2	90.0	90.5	90.8	90.9	91.1	91.3	91.3	91.5	91.5	91.5	91.6	91.6	91.7	91.7
≥ 800	86.8	89.7	90.6	91.1	91.4	91.4	91.7	91.9	92.0	92.2	92.3	92.4	92.5	92.5	92.5	92.5
≥ 700	87.0	90.0	91.0	91.6	91.9	91.9	92.2	92.5	92.6	92.9	93.0	93.1	93.2	93.2	93.3	93.3
≥ 600	87.2	90.2	91.3	92.1	92.4	92.4	92.7	93.0	93.1	93.5	93.7	93.7	93.8	93.8	93.9	93.9
≥ 500	87.2	90.7	91.8	92.7	93.1	93.2	93.4	93.9	94.0	94.4	94.7	94.8	94.9	95.0	95.1	95.1
≥ 400	87.4	91.1	92.3	93.2	93.8	93.8	94.3	94.8	95.0	95.5	95.8	96.0	96.1	96.2	96.3	96.3
≥ 300	87.6	91.4	92.8	93.8	94.5	94.6	95.1	95.9	96.2	96.7	97.2	97.4	97.6	97.7	97.8	97.9
≥ 200	87.6	91.4	92.9	93.9	94.8	94.9	95.6	96.5	96.9	97.7	98.3	98.6	98.9	99.1	99.2	99.4
≥ 100	87.6	91.4	92.9	93.9	94.8	94.9	95.6	96.6	96.9	97.8	98.5	98.8	99.1	99.3	99.5	99.8
≥ 0	87.6	91.4	92.9	93.9	94.8	94.9	95.6	96.6	96.9	97.8	98.5	98.8	99.1	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

0
2
1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING ≥ 20000	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000	66.1	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 16000	66.1	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000	66.3	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 12000	67.6	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 9000	72.9	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 8000	75.6	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 7000	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 6000	79.1	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 5000	82.4	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4500	84.1	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 4000	85.3	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3500	86.0	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 3000	87.4	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2500	88.5	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2000	89.5	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1800	89.5	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500	90.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1200	90.9	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1000	91.5	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 900	91.6	94.0	94.1	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 800	92.0	94.6	94.7	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 700	92.0	94.7	94.8	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	92.2	94.9	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	92.8	96.2	96.5	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 400	92.9	97.3	97.7	98.2	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	92.9	97.4	97.8	98.4	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	92.9	97.6	98.1	98.7	99.1	99.1	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6
≥ 100	92.9	97.7	98.2	98.8	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0
≥ 0	92.9	97.7	98.2	98.8	99.2	99.2	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.4
≥ 20000	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.1
≥ 18000	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.1
≥ 16000	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.1
≥ 14000	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.4
≥ 12000	65.7	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.5
≥ 10000	69.7	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.5
≥ 9000	70.5	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.4
≥ 8000	72.5	73.1	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.5
≥ 7000	73.0	73.7	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.1
≥ 6000	74.6	75.3	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.7
≥ 5000	78.0	78.6	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	79.0
≥ 4500	80.2	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.7
≥ 4000	81.6	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.2
≥ 3500	82.5	83.7	83.8	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.1
≥ 3000	83.9	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.6
≥ 2500	84.8	86.1	86.2	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.7
≥ 2000	86.3	88.1	88.2	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.7
≥ 1800	86.3	88.3	88.4	88.5	88.5	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.9
≥ 1500	87.6	89.8	89.9	90.0	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.4
≥ 1200	88.4	90.5	90.8	90.9	90.9	91.0	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.5
≥ 1000	88.9	91.4	91.6	92.0	92.2	92.3	92.5	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	93.0
≥ 900	89.5	92.0	92.3	92.7	92.8	92.9	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.7
≥ 800	89.8	92.6	92.8	93.3	93.4	93.5	93.8	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.3
≥ 700	89.8	92.7	92.9	93.7	93.9	94.0	94.2	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.7
≥ 600	89.9	92.9	93.1	93.9	94.2	94.3	94.5	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	95.1
≥ 500	90.3	93.9	94.2	95.1	95.5	95.6	95.9	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.7
≥ 400	90.6	94.3	94.8	95.7	96.2	96.3	96.7	97.3	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.8
≥ 300	90.6	94.4	94.9	95.9	96.5	96.6	97.0	97.6	97.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
≥ 200	90.6	94.6	95.2	96.2	96.9	97.0	97.6	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.8
≥ 100	90.6	94.6	95.2	96.2	96.9	97.0	97.6	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.8
≥ 0	90.6	94.6	95.2	96.2	96.9	97.0	97.6	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	53.8	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 20000	60.9	61.2	61.2	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5
≥ 18000	60.9	61.2	61.2	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5
≥ 16000	61.0	61.3	61.3	61.3	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
≥ 14000	61.5	61.8	61.8	61.8	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.2
≥ 12000	63.1	63.8	63.8	63.8	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 10000	68.3	69.0	69.0	69.0	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.4
≥ 9000	69.2	70.0	70.0	70.0	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
≥ 8000	72.0	72.9	72.9	72.9	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2
≥ 7000	72.7	73.5	73.5	73.5	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9
≥ 6000	73.9	74.7	74.7	74.7	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.1
≥ 5000	77.1	78.0	78.0	78.1	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4
≥ 4500	78.9	79.9	80.0	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4
≥ 4000	80.8	81.7	81.8	81.9	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3
≥ 3500	81.4	82.4	82.5	82.6	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9
≥ 3000	82.9	84.2	84.6	84.7	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2
≥ 2500	83.5	85.1	85.6	85.7	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1
≥ 2000	84.6	86.2	86.8	86.9	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3
≥ 1800	84.6	86.2	86.8	86.9	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3
≥ 1500	85.4	87.0	87.6	87.7	87.8	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2
≥ 1200	86.3	88.3	89.0	89.2	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7
≥ 1000	87.3	90.3	91.2	91.4	91.5	91.5	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0
≥ 900	87.5	90.5	91.4	91.7	91.8	91.8	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4
≥ 800	87.5	91.0	91.8	92.3	92.4	92.4	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9
≥ 700	87.6	91.2	92.0	92.6	92.7	92.7	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.5
≥ 600	87.8	91.5	92.6	93.2	93.4	93.4	93.9	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.3
≥ 500	88.0	92.2	93.2	94.2	94.9	95.1	95.7	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥ 400	88.0	92.2	93.5	94.6	95.4	95.5	96.1	96.5	96.5	97.0	97.0	97.0	97.0	97.0	97.1	97.2
≥ 300	88.0	92.2	93.7	94.7	95.6	95.7	96.5	97.1	97.3	98.0	98.1	98.1	98.1	98.1	98.3	98.4
≥ 200	88.0	92.2	93.7	94.7	95.8	95.9	97.0	97.6	98.1	99.1	99.2	99.2	99.2	99.2	99.5	99.6
≥ 100	88.0	92.2	93.7	94.7	95.8	95.9	97.0	97.7	98.2	99.2	99.4	99.5	99.5	99.5	99.7	100.0
≥ 0	88.0	92.2	93.7	94.7	95.8	95.9	97.0	97.7	98.2	99.2	99.4	99.5	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 20000	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 18000	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 16000	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 14000	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 12000	65.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 10000	69.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 9000	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 7000	74.0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 6000	74.7	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000	77.4	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4500	78.3	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 4000	81.2	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3500	82.8	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 3000	84.4	85.2	85.3	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 2500	86.0	86.8	87.0	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2000	86.7	87.5	87.7	88.0	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1800	87.1	88.2	88.4	88.6	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1500	87.6	88.7	88.9	89.2	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200	89.2	91.0	91.5	91.8	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000	90.1	92.4	93.0	93.3	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 900	90.4	93.0	93.7	94.0	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 800	90.4	93.4	94.2	94.6	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 700	90.4	93.5	94.3	94.7	95.1	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	90.5	93.9	94.7	95.2	95.6	95.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 500	90.6	94.4	95.4	96.0	96.7	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 400	90.6	94.7	95.8	96.7	97.5	97.5	97.6	97.6	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 300	90.8	94.8	96.0	97.0	97.8	97.8	98.1	98.2	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200	90.8	94.8	96.0	97.0	97.8	97.8	98.2	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	90.8	94.8	96.0	97.0	97.8	97.8	98.2	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 50	90.8	94.8	96.0	97.0	97.8	97.8	98.2	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 25	90.8	94.8	96.0	97.0	97.8	97.8	98.2	98.3	98.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	45.5	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 2000	55.5	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1800	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 1600	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 1400	56.6	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 1200	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 1000	63.2	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 900	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 800	67.5	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 700	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 600	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 500	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 400	76.9	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 300	81.4	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 250	83.2	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 200	85.9	87.3	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 150	86.5	88.2	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 100	87.8	90.1	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 50	88.1	90.4	90.7	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 0	89.6	92.1	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1200	90.7	93.5	93.9	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1000	91.7	94.7	95.2	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	92.1	95.5	95.9	96.3	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800	92.2	95.8	96.2	96.9	97.4	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	92.4	95.9	96.3	97.0	97.5	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	92.4	95.9	96.3	97.0	97.5	97.5	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	92.4	95.9	96.4	97.2	97.8	98.4	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	92.5	96.0	96.6	97.3	98.0	98.5	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	92.5	96.0	96.6	97.4	98.1	98.6	99.0	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	92.5	96.0	96.7	97.6	98.4	98.9	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	92.5	96.0	96.7	97.6	98.4	98.9	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	92.5	96.0	96.7	97.6	98.4	98.9	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF E1AC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING -FEET-	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	46.1	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 20000	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 18000	58.1	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 16000	58.2	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 14000	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 12000	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 10000	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 9000	67.6	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 8000	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 7000	73.2	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 6000	75.6	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000	79.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500	80.5	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000	85.4	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3500	86.8	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3000	88.5	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2500	89.8	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 2000	91.3	92.9	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	91.7	93.3	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1500	92.9	94.8	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1200	94.1	96.6	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1000	94.5	97.0	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	94.5	97.0	97.3	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	94.5	97.1	97.4	97.7	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	94.7	97.3	97.6	98.0	98.2	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	94.7	97.3	97.7	98.2	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.8	97.6	98.1	98.7	98.9	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING ≥ 20000	51.7	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 18000	60.3	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 16000	61.3	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 14000	61.3	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 12000	62.9	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000	64.9	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	71.1	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 8000	72.4	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 7000	75.3	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 6000	76.9	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 5000	79.6	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 4500	82.8	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4000	83.9	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	86.3	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 3000	87.0	87.5	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2500	89.1	89.9	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	90.6	91.6	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	92.5	93.9	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1600	92.8	94.2	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	93.0	94.6	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	94.4	96.2	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	94.4	96.3	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	94.4	96.6	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	94.4	96.6	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	94.4	96.6	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 600	94.4	96.6	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 500	94.4	96.6	97.3	97.8	98.1	98.1	98.1	98.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	94.4	96.7	97.4	98.0	98.2	98.2	98.2	98.3	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	94.5	97.0	97.7	98.6	98.8	98.8	98.8	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	94.5	97.2	98.0	98.8	99.0	99.0	99.0	99.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.5	97.2	98.0	98.8	99.0	99.0	99.0	99.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.5	97.2	98.0	98.8	99.0	99.0	99.0	99.1	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO. CEILING ≥ 20000	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 16000	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 14000	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 12000	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 10000	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 9000	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 8000	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 7000	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 6000	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 5000	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4500	85.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 4000	88.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 3500	88.9	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3000	89.8	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 2500	91.3	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2000	92.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1800	92.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1500	92.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1200	93.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1000	93.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 900	93.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 800	93.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	94.0	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 600	94.2	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	94.3	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 400	94.5	98.3	98.4	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	94.5	98.3	98.4	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	94.5	98.6	98.7	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	94.5	98.6	98.7	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	94.5	98.6	98.7	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.16	≥0.1	≥0
NO CEILING ≥ 20000	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 18000	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 16000	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 14000	62.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1
≥ 12000	64.5	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 10000	69.3	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 9000	70.2	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8
≥ 8000	73.2	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8
≥ 7000	74.3	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 6000	76.2	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.9
≥ 5000	79.5	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 4500	81.1	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0
≥ 4000	83.8	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.8
≥ 3500	84.8	85.8	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	86.5	87.5	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9
≥ 2500	87.6	88.8	89.1	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2000	88.9	90.4	90.6	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0
≥ 1800	89.1	90.6	90.9	91.0	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1500	89.9	91.7	92.0	92.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4
≥ 1200	90.9	93.0	93.4	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1000	91.5	94.0	94.4	94.6	94.8	94.8	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0
≥ 900	91.7	94.3	94.7	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4
≥ 800	91.9	94.6	95.0	95.4	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9
≥ 700	91.9	94.8	95.2	95.6	95.8	95.8	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	92.0	94.9	95.4	95.9	96.1	96.2	96.3	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5
≥ 500	92.2	95.5	96.1	96.7	97.1	97.2	97.4	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 400	92.3	95.9	96.5	97.2	97.7	97.8	98.0	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.6
≥ 300	92.3	96.0	96.7	97.4	97.9	98.1	98.3	98.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.2
≥ 200	92.3	96.1	96.8	97.6	98.2	98.3	98.6	99.1	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.8
≥ 100	92.3	96.1	96.8	97.6	98.2	98.3	98.7	99.1	99.3	99.7	99.7	99.7	99.7	99.8	99.8	99.9
≥ 0	92.3	96.1	96.8	97.6	98.2	98.3	98.7	99.1	99.3	99.7	99.7	99.7	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7436

USAF ETAC 1500 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 20000	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 18000	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 16000	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 14000	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 12000	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 10000	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 9000	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 8000	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 7000	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 6000	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 4500	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 4000	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 3500	93.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3000	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2500	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2000	96.2	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800	96.2	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1500	96.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200	96.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1000	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 900	97.3	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	97.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	98.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	98.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	98.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	98.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 899

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6
≥18000	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2
≥16000	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.6	73.6
≥14000	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.6	73.6
≥12000	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7
≥10000	75.2	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7
≥9000	79.3	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8
≥8000	79.7	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1
≥7000	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.4
≥6000	84.9	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3
≥5000	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6
≥4500	89.3	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8
≥4000	90.2	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7
≥3500	91.8	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.2	92.2
≥3000	93.0	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4
≥2500	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8
≥2000	94.4	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	95.0	95.0
≥1800	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8
≥1600	95.3	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9
≥1500	95.8	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.6	96.6
≥1200	95.9	96.3	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7
≥1000	96.2	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0
≥900	96.3	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2
≥800	96.4	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.6	97.6
≥700	96.6	97.3	97.4	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9
≥600	96.8	97.8	97.9	98.2	98.4	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8
≥500	96.8	97.8	97.9	98.2	98.4	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8
≥400	96.8	98.1	98.3	98.9	99.1	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.6	99.6
≥300	96.8	98.1	98.3	99.0	99.3	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
≥200	96.8	98.1	98.3	99.0	99.3	99.3	99.3	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥100	96.8	98.1	98.3	99.0	99.3	99.3	99.3	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥0	96.8	98.1	98.3	99.0	99.3	99.3	99.3	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY - STATUTE MILES															
	20	26	25	24	23	22	22	21	21	21	20	20	20	20	20	20
2000	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
1800	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
1600	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
1400	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
1200	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
1000	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
800	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
600	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
400	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
200	84.3	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
100	86.0	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
50	87.6	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
25	88.8	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
10	90.1	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
5	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2	92.2	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
1	92.3	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
0	93.0	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0	93.4	94.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
0	94.4	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
0	94.7	95.4	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	94.9	96.1	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
0	95.1	96.3	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
0	95.2	96.4	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
0	95.3	96.6	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	95.3	96.7	97.4	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0	95.3	96.7	97.6	98.2	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0	95.6	97.0	97.9	98.6	98.7	98.7	98.8	98.9	98.9	98.9	99.2	99.2	99.3	99.3	99.3	99.3
0	95.6	97.0	97.9	98.7	98.8	98.8	98.9	99.0	99.1	99.1	99.4	99.4	99.6	99.6	99.6	99.6
0	95.6	97.0	97.9	98.7	98.8	98.8	98.9	99.0	99.1	99.2	99.3	99.7	99.7	99.8	99.8	99.9
0	95.6	97.0	97.9	98.7	98.8	98.8	98.9	99.0	99.1	99.2	99.3	99.7	99.7	99.8	99.8	99.9
0	95.6	97.0	97.9	98.7	98.8	98.8	98.9	99.0	99.1	99.2	99.3	99.7	99.7	99.8	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0
NO. CEILING	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 20000	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 18000	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 16000	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 14000	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 10000	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 9500	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 8000	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 7000	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 6000	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 5000	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 4500	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4000	90.7	90.9	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 3500	91.4	91.7	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 3000	93.3	93.6	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2500	93.6	93.8	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000	94.3	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1800	94.6	94.9	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500	95.4	95.9	96.1	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1200	95.7	96.1	96.3	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	96.1	96.7	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	96.2	96.8	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	96.2	96.9	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	96.4	97.1	97.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 600	96.4	97.1	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	96.7	97.4	98.1	98.4	98.7	98.7	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	96.8	97.6	98.3	98.7	99.1	99.2	99.2	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	96.8	97.6	98.3	98.9	99.6	99.7	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.8	97.6	98.3	98.9	99.6	99.7	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.8	97.6	98.3	98.9	99.6	99.7	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.8	97.6	98.3	98.9	99.6	99.7	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING ≥ 20000	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 18000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 16000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 14000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 12000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 10000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 9000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 8000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 7000	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 6000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 5000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4500	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 4000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 3500	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 2500	95.4	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800	96.3	96.4	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	96.4	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	96.9	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	97.0	97.2	97.2	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 900	97.8	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	97.8	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	97.8	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	97.9	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	97.9	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	98.1	99.1	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	98.1	99.2	99.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	98.1	99.2	99.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	98.1	99.2	99.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	98.1	99.2	99.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING ≥ 20000	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 18000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 16000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 14000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 12000	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 10000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 9000	73.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 8000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 7000	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 6000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 4500	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 4000	89.9	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3500	93.9	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3000	95.1	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2500	96.4	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 2000	96.7	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800	96.8	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500	97.6	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1200	97.7	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	97.7	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	97.7	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	97.8	98.3	98.4	98.4	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	97.8	98.6	98.7	98.7	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	97.8	98.6	98.7	98.7	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	97.9	98.9	99.0	99.0	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1.7	≥1.4	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 20000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 16000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 14000	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 12000	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 10000	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 9000	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 8000	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 7000	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 6000	87.3	87.3	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 5000	91.3	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4500	91.8	92.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4000	95.0	95.8	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500	96.6	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3000	97.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2500	97.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000	97.2	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1800	97.2	98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	97.3	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	97.3	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	97.3	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	97.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	97.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700	97.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	97.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	97.8	99.2	99.4	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL. A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 18000 ≥ 16000	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 14000 ≥ 12000	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000 ≥ 9000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 8000 ≥ 7000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 6000 ≥ 5000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4500 ≥ 4000	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 3500 ≥ 3000	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2500 ≥ 2000	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1800 ≥ 1500	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 1200 ≥ 1000	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 900 ≥ 800	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 700 ≥ 600	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 500 ≥ 400	93.9	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 300 ≥ 200	95.7	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 100 ≥ 0	97.3	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0	97.3	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 0	97.4	98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 0	97.7	98.4	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 0	97.7	98.4	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 0	97.8	98.6	98.7	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	97.8	98.6	98.7	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	97.8	98.6	98.7	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	97.8	98.6	98.7	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	97.9	98.7	98.8	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	97.9	98.7	98.8	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	97.9	98.8	98.9	99.2	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	97.9	98.8	98.9	99.2	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	97.9	98.8	98.9	99.2	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.9	98.8	98.9	99.2	99.3	99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 20000	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.8
≥ 18000	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1
≥ 16000	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 14000	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 10000	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 9000	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 8000	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 6000	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	89.0	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4500	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 4000	92.5	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500	93.8	94.2	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3000	95.2	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2500	95.4	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1
≥ 2000	95.8	96.3	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1800	95.9	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	96.5	97.1	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	96.6	97.2	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	96.9	97.6	97.8	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	97.0	97.7	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	97.0	97.9	98.0	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	97.1	98.0	98.2	98.3	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	97.2	98.1	98.3	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	97.3	98.3	98.6	98.8	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	97.3	98.5	98.8	99.1	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 300	97.3	98.5	98.8	99.2	99.4	99.4	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	97.3	98.5	98.8	99.2	99.5	99.5	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.3	98.5	98.8	99.2	99.5	99.5	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	97.3	98.5	98.8	99.2	99.5	99.5	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING Feet	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥ 20000	70.2	70.2	70.3	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 18000 ≥ 16000	74.8	74.8	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 14000 ≥ 12000	74.8	74.8	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 10000 ≥ 9000	74.9	74.9	75.1	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 8000 ≥ 7000	77.5	77.6	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000 ≥ 5000	83.9	84.1	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4500 ≥ 4000	84.1	84.3	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 3500 ≥ 3000	85.4	85.6	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2500 ≥ 2000	86.8	87.1	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1800 ≥ 1500	88.6	88.9	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1200 ≥ 1000	91.6	92.0	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 900 ≥ 800	92.2	92.6	92.7	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 700 ≥ 600	93.4	94.0	94.1	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 500 ≥ 400	94.3	94.9	95.1	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300 ≥ 200	95.6	96.5	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 100 0	95.8	96.7	96.8	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	96.2	97.1	97.2	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
	96.5	97.3	97.4	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
	96.9	97.7	97.8	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
	97.0	97.8	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	97.0	97.8	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
	97.1	98.1	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	97.1	98.1	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	97.2	98.2	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	97.2	98.3	98.4	98.7	98.7	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
	97.3	98.5	98.6	99.0	99.0	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	97.4	98.6	98.7	99.1	99.2	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
	97.4	98.6	98.7	99.4	99.5	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	97.4	98.6	98.7	99.4	99.5	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.15
NO CEILING	68.7	68.8	68.9	68.9	69.0	69.1	69.2	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 20000	73.8	73.9	74.0	74.0	74.1	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 18000	73.8	73.9	74.0	74.0	74.1	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 16000	73.8	73.9	74.0	74.0	74.1	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 14000	74.1	74.2	74.3	74.3	74.4	74.5	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000	77.0	77.3	77.4	77.4	77.5	77.6	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 10000	83.4	83.9	84.0	84.0	84.1	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 9000	83.9	84.3	84.4	84.4	84.5	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 8000	84.9	85.5	85.6	85.6	85.7	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 7000	85.9	86.5	86.6	86.6	86.7	86.8	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 6000	87.1	87.6	87.7	87.7	87.8	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 5000	90.8	91.4	91.5	91.5	91.6	91.7	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 4500	91.8	92.5	92.6	92.6	92.7	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 4000	92.9	93.9	94.0	94.0	94.1	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3500	93.0	94.0	94.1	94.1	94.2	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 3000	93.5	94.5	94.6	94.6	94.7	94.8	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2500	94.1	95.1	95.2	95.2	95.3	95.4	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2000	94.6	95.6	95.7	95.7	95.8	95.9	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1800	94.6	95.6	95.7	95.7	95.8	95.9	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1500	94.6	95.6	95.7	95.7	95.8	95.9	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	94.7	95.7	95.9	96.1	96.2	96.3	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	94.9	96.0	96.2	96.5	96.7	96.8	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	94.9	96.0	96.2	96.5	96.7	96.8	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	94.9	96.0	96.2	96.5	96.7	96.8	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	95.1	96.3	96.6	96.8	97.0	97.1	97.3	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 600	95.1	96.3	96.6	96.8	97.0	97.1	97.3	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500	95.2	96.5	96.8	97.0	97.2	97.3	97.5	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 400	95.2	96.5	96.8	97.0	97.4	97.5	97.7	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300	95.3	96.6	97.0	97.4	98.2	98.3	98.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	95.3	96.7	97.3	97.7	98.7	98.8	99.1	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	95.3	96.7	97.3	97.7	98.8	98.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	95.3	96.7	97.3	97.7	98.8	98.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥ 20000	68.2	68.5	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 18000	74.0	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 16000	74.2	74.5	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 14000	74.4	74.7	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.1	75.1
≥ 12000	76.9	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.5
≥ 10000	82.5	82.8	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2
≥ 9000	82.8	83.1	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5
≥ 8000	84.5	84.8	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3
≥ 7000	85.5	85.8	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.2
≥ 6000	86.7	87.0	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4
≥ 5000	88.8	89.2	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7	89.7	89.7
≥ 4500	89.4	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2
≥ 4000	90.8	91.2	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.6
≥ 3500	91.1	91.6	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0
≥ 3000	92.0	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2
≥ 2500	92.4	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.5	93.5
≥ 2000	92.5	93.3	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8
≥ 1800	92.6	93.5	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0
≥ 1500	92.7	93.8	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3
≥ 1200	93.2	94.4	94.8	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2
≥ 1000	93.8	95.3	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1
≥ 900	93.9	95.4	95.8	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3
≥ 800	94.0	95.8	96.2	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8	96.8
≥ 700	94.1	95.9	96.3	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9
≥ 600	94.2	96.0	96.5	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.0
≥ 500	94.2	96.1	96.6	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5
≥ 400	94.2	96.3	96.9	97.6	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3
≥ 300	94.2	96.3	97.0	98.0	98.3	98.5	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2
≥ 200	94.2	96.5	97.4	98.4	98.7	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 100	94.2	96.5	97.4	98.4	98.7	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9
≥ 0	94.2	96.5	97.4	98.4	98.7	98.9	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING ≥ 20000	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 18000	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 16000	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 14000	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 12000	82.7	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 10000	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 9000	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 8000	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 7000	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 6000	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 5000	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4500	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 3500	93.1	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000	94.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 2000	95.6	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	95.8	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	96.1	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200	96.8	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	97.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900	97.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	97.0	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700	97.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 600	97.2	99.0	99.0	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	97.2	99.0	99.1	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	97.3	99.2	99.4	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	97.3	99.4	99.5	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.3	99.4	99.5	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.3	99.4	99.5	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.3	99.4	99.5	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
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73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 20000	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 18000	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 16000	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 14000	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 12000	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 10000	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 9000	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 8000	87.6	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 7000	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 6000	89.4	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 5000	92.0	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 4500	92.3	92.7	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 4000	93.8	94.5	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 3500	94.3	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3000	95.4	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2500	95.8	96.9	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2000	96.1	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1800	96.1	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1500	96.6	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	97.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	97.4	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	97.5	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	97.6	98.8	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	97.6	98.9	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	97.6	98.9	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	97.6	98.9	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	97.6	98.9	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	97.6	98.9	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	97.6	98.9	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.6	98.9	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	97.6	98.9	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 930

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73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.8	≥0.6	≥0.5	≥0.4	≥0.3	≥0.2
NO CEILING	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 20000	70.9	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 18000	70.9	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000	70.9	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 14000	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 12000	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 9000	84.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 8000	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 7000	87.5	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 6000	89.5	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 5000	92.1	93.0	93.1	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 4500	92.7	93.5	93.6	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4000	94.7	95.6	95.7	95.9	95.9	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500	95.4	96.2	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 3000	96.3	97.2	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2500	96.8	97.6	97.7	98.0	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	96.8	97.6	97.7	98.0	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1800	96.8	97.6	97.7	98.0	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1500	97.1	98.0	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200	97.3	98.3	98.5	98.8	98.8	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000	97.5	98.5	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	97.5	98.5	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	97.6	98.6	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	97.7	98.7	98.9	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	97.7	98.8	99.0	99.4	99.5	99.5	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	97.7	98.8	99.0	99.4	99.6	99.6	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	97.7	98.8	99.0	99.5	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.7	98.8	99.0	99.5	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.7	98.8	99.0	99.5	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.7	98.8	99.0	99.5	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.7	98.8	99.0	99.5	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC 1-74 D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 18000 ≥ 16000	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 14000 ≥ 12000	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 10000 ≥ 9000	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 8000 ≥ 7000	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 6000 ≥ 5000	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 4500 ≥ 4000	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500 ≥ 3000	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2500 ≥ 2000	89.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800 ≥ 1500	91.2	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1200 ≥ 1000	93.0	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 900 ≥ 800	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 700 ≥ 600	94.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 500 ≥ 400	96.2	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 300 ≥ 200	97.0	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100 ≥ 0	97.0	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
	97.5	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
	97.6	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
	98.1	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
	98.1	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
	98.2	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	98.2	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
	98.3	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	98.3	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
	98.3	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	98.3	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
	98.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	98.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	98.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0
NO CEILING	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 20000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 18000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 16000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 12000	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 10000	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 9000	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 8000	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 7000	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 6000	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 5000	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 4500	94.1	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4000	95.3	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3500	96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3000	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2500	96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2000	97.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	97.2	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1500	97.4	98.8	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	97.6	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	97.7	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	97.7	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	97.7	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	97.8	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	98.0	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	98.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-32

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING ≥ 20000	66.8	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	75.1	75.3	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 16000	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 14000	75.6	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000	78.5	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 10000	84.4	84.7	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 9000	84.8	85.1	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 8000	86.4	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 7000	87.6	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 6000	89.1	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 5000	91.7	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 4500	92.3	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 4000	93.6	94.3	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3500	94.2	95.0	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3000	95.1	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2500	95.5	96.4	96.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2000	95.8	96.7	96.9	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1800	95.9	96.8	96.9	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500	96.1	97.1	97.3	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	96.5	97.5	97.7	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000	96.7	97.8	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	96.7	97.9	98.1	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	96.8	98.0	98.2	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	96.9	98.1	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	96.9	98.2	98.5	98.6	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	96.9	98.3	98.6	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	96.9	98.4	98.7	98.9	99.1	99.1	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	97.0	98.5	98.8	99.1	99.3	99.4	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	97.0	98.5	98.9	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.0	98.5	98.9	99.2	99.5	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	97.0	98.5	98.9	99.2	99.5	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 7439

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

725625 ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	71.6	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 2000	77.4	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1800	77.5	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 1600	77.7	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 1400	77.8	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 1200	79.3	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 1000	84.9	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 900	85.5	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 800	88.7	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	89.7	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 600	90.4	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 500	93.3	94.6	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 450	93.9	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 400	94.9	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 350	95.5	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 300	95.8	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 250	96.0	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 200	96.4	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 180	96.4	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 160	96.7	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 140	96.8	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 120	97.0	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 100	97.0	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 90	97.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 80	97.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 70	97.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 60	97.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 50	97.5	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 40	97.7	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 30	97.7	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 20	97.7	99.1	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 10	97.7	99.1	99.4	99.4	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0
≥ 5	97.7	99.1	99.4	99.4	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING, FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	73.0	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 20000	78.0	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 18000	78.0	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 16000	78.1	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 14000	78.6	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 12000	81.2	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 10000	86.1	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 9000	86.9	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 8000	89.2	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 7000	89.5	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 6000	90.2	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 5000	92.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 4500	92.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 4000	93.5	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3500	93.9	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 3000	94.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500	94.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2000	95.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	95.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500	95.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	95.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	95.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	95.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3
≥ 800	96.0	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4
≥ 700	96.1	97.4	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
≥ 600	96.1	97.4	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1
≥ 500	96.3	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.6
≥ 400	96.6	98.1	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.1
≥ 300	96.6	98.1	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.1
≥ 200	96.6	98.1	98.5	98.9	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.6
≥ 100	96.6	98.1	98.5	98.9	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.9
≥ 0	96.6	98.1	98.5	98.9	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO. CEILING ≥ 20000	68.4	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 18000	74.8	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 16000	75.1	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 14000	75.9	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 12000	79.4	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 10000	83.5	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 9000	84.3	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 8000	87.4	87.8	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 7000	89.2	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 6000	90.0	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 5000	91.3	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 4500	91.8	92.7	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	92.6	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3500	92.7	93.8	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 3000	93.7	94.7	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	94.1	95.4	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2000	94.2	95.5	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800	94.2	95.5	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500	94.5	95.8	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	95.1	96.5	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	95.3	96.7	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	95.3	96.7	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	95.3	96.7	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	95.4	96.8	97.2	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	95.4	96.8	97.3	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	95.6	97.0	97.5	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 400	95.7	97.2	97.8	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	95.7	97.3	98.0	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200	95.7	97.3	98.0	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100	95.7	97.3	98.0	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0	95.7	97.3	98.0	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 20000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 18000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 16000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 14000	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 12000	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 10000	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 9000	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 8000	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 7000	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 6000	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 5000	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4500	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 3500	94.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3000	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2500	95.7	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2000	96.3	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800	96.3	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1500	96.5	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1200	96.8	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	97.2	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 900	97.5	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	97.8	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	97.8	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	97.8	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	97.8	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL. A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 20000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 18000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 16000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 14000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 12000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 10000	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 9000	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 8000	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 7000	89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 6000	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 5000	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 4500	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4000	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3500	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 3000	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1800	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1500	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	98.4	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	98.5	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	98.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	98.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING, FEET	VISIBILITY, STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO. CEILING ≥ 20000	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 18000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 16000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 14000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 12000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 10000	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 9000	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 8000	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 7000	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 6000	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 5000	95.0	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 4500	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 4000	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 3500	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3000	98.0	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2500	98.4	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000	98.5	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800	98.5	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	98.8	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	98.8	99.2	99.2	99.4	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 20000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 18000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 15000	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 14000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 10000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 9000	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 8000	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 7000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 6000	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 5000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4500	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4000	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3500	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	98.9	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	98.9	99.5	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	98.9	99.5	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 20000	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 18000	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 16000	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 14000	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 12000	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 10000	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 9000	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 8000	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 7000	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 6000	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 5000	94.9	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 4500	95.9	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 4000	96.4	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 3500	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000	97.3	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2500	97.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000	97.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800	97.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500	97.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	97.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	98.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	98.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	98.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	98.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	98.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	98.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥ 20000	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 18000	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 16000	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 14000	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 12000	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 10000	80.4	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 9000	85.3	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 8000	85.8	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 7000	89.1	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 6000	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 5000	91.0	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 4500	93.7	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 4000	94.3	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3500	95.2	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3000	95.6	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2500	96.2	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 2000	96.5	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800	96.9	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1500	97.1	97.9	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200	97.3	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000	97.4	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900	97.5	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 800	97.6	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	97.6	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	97.6	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	97.7	98.8	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	97.8	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	97.8	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	97.8	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	97.8	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	97.8	98.9	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 7436

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING ≥ 20000	78.7	78.8	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 18000	81.4	81.6	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 16000	81.4	81.6	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 14000	81.7	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 12000	83.2	83.3	83.3	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 10000	87.0	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 9000	87.3	87.4	87.4	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 8000	88.4	88.6	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 7000	89.2	89.3	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 6000	90.7	90.8	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 5000	92.9	93.1	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 4500	93.1	93.3	93.3	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 4000	93.8	94.2	94.2	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 3500	94.2	94.7	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3000	94.4	94.9	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	94.8	95.2	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 2000	95.1	95.7	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1800	95.8	96.3	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1500	96.2	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200	96.6	97.1	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	96.9	97.4	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	97.1	97.7	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 800	97.1	97.7	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	97.2	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	97.3	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 500	97.3	98.0	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 400	97.4	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 300	97.7	98.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	97.7	98.4	98.6	98.7	99.1	99.1	99.2	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	97.7	98.4	98.6	98.7	99.1	99.1	99.2	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
≥ 0	97.7	98.4	98.6	98.7	99.1	99.1	99.2	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0100-0500

CEILING -FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 20000	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 18000	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 15000	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 14000	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 12000	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 10000	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 9000	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 8000	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 7000	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 6000	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 5000	90.3	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 4500	90.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 4000	92.4	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500	92.4	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3000	92.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 2500	93.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000	94.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1800	94.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200	95.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	95.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 500	96.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	96.9	98.1	98.1	98.2	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	97.2	98.7	98.7	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	97.2	98.7	98.7	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ U	97.2	98.7	98.7	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	68.7	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.3
≥ 20000	74.6	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3
≥ 18000	74.6	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3
≥ 16000	74.7	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4
≥ 14000	74.9	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7
≥ 12000	76.3	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2
≥ 10000	80.4	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.6
≥ 9000	80.8	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9
≥ 8000	82.8	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.1
≥ 7000	84.6	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.9
≥ 6000	86.2	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.6
≥ 5000	88.2	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.6
≥ 4500	88.8	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0	90.1
≥ 4000	89.8	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.3
≥ 3500	90.9	91.9	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.6
≥ 3000	91.3	92.4	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.1
≥ 2500	91.7	92.8	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.4
≥ 2000	92.0	93.1	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7	93.8
≥ 1800	92.0	93.1	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.7	93.8
≥ 1500	92.9	94.0	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.7	94.8
≥ 1200	93.3	94.7	95.1	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.9
≥ 1000	93.7	95.0	95.4	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.3
≥ 900	93.7	95.0	95.4	96.0	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.6
≥ 800	93.7	95.4	95.9	96.4	96.4	96.4	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	97.0
≥ 700	93.7	95.4	95.9	96.4	96.4	96.4	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	97.0
≥ 600	93.7	95.7	96.1	96.8	96.9	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.6
≥ 500	93.7	95.9	96.4	97.1	97.2	97.2	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	98.0
≥ 400	93.7	96.2	97.0	97.7	97.8	97.8	98.1	98.2	98.4	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 300	93.8	96.3	97.1	97.9	98.0	98.0	98.3	98.8	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.6
≥ 200	93.8	96.3	97.1	97.9	98.0	98.0	98.3	98.8	99.0	99.2	99.2	99.2	99.2	99.3	99.3	99.7
≥ 100	93.8	96.3	97.1	98.1	98.2	98.2	98.7	99.1	99.3	99.6	99.6	99.6	99.6	99.7	99.7	100.0
≥ 0	93.8	96.3	97.1	98.1	98.2	98.2	98.7	99.1	99.3	99.6	99.6	99.6	99.6	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING ≥20000	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥18000	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥16000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥14000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥12000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥10000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥9000	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥8000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥7000	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥6000	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥5000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥4500	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥4000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥3500	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥3000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥2500	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥2000	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥1800	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥1500	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥1200	94.1	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥1000	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥900	95.4	95.6	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥800	95.6	95.7	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1
≥700	95.9	96.1	96.2	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.9	96.9	96.9	97.0	97.0
≥600	96.1	96.3	96.4	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.2	97.3
≥500	96.1	96.6	96.9	97.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.8	97.9
≥400	96.1	96.8	97.4	98.0	98.1	98.2	98.3	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.9
≥300	96.2	97.0	97.9	98.7	98.9	99.0	99.2	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.7	99.8
≥200	96.2	97.0	98.0	98.8	99.0	99.1	99.3	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.9
≥100	96.2	97.0	98.0	98.8	99.0	99.2	99.4	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.9	100.0
≥0	96.2	97.0	98.0	98.8	99.0	99.2	99.4	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

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ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 20000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 18000	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 16000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 14000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 12000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 10000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 9000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 8000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 7000	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 6000	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 5000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 4500	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 4000	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 3500	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 3000	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 2500	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2000	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1800	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1500	95.8	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	96.8	97.1	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000	97.0	97.3	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	97.2	97.6	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	97.8	98.2	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	97.8	98.3	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	97.8	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	97.8	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	97.9	98.6	99.2	99.3	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	97.9	98.6	99.2	99.3	99.4	99.4	99.4	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	97.9	98.6	99.2	99.3	99.4	99.4	99.4	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.9	98.6	99.2	99.3	99.4	99.4	99.4	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.9	98.6	99.2	99.3	99.4	99.4	99.4	99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 20000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 18000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 16000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 14000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 12000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 10000	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 9000	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 8000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 7000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 6000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 5000	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4500	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4000	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3500	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3000	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2500	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2000	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1500	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1200	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	98.4	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 50	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	98.4	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ .01
NO CEILING ≥ 20000	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 18000	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 16000	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 14000	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 12000	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 10000	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 9000	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 8000	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 7000	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 6000	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 5000	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 4500	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 4000	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 3500	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3000	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 2500	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000	96.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200	97.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 900	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 800	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 500	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 400	97.6	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	97.8	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	97.8	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.8	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.6	99.7	99.9	99.9	99.9	99.9	100.0	100.0
≥ 0	97.8	99.0	99.0	99.1	99.2	99.2	99.2	99.3	99.6	99.7	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 20000	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 18000	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 16000	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 14000	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 12000	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 10000	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 9000	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 8000	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 7000	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 5000	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 4500	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000	93.2	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 3500	93.9	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3000	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500	95.1	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 2000	95.8	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1800	95.8	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1500	96.1	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1200	96.6	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	96.8	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	96.8	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800	96.8	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	96.9	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 600	97.0	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	97.0	97.9	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	97.2	98.1	98.2	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300	97.4	98.6	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	97.4	98.6	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4
≥ 100	97.4	98.6	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.3	99.7	99.7	99.7	99.7	100.0
≥ 0	97.4	98.6	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.3	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	72.9	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 20000	78.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8
≥ 18000	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 16000	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.1
≥ 14000	79.1	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 12000	80.5	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 10000	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 9000	84.5	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 8000	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 7000	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 6000	89.1	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 5000	90.9	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4500	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4000	92.7	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 3000	93.8	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 2500	94.4	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1
≥ 2000	95.0	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1800	95.1	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500	95.6	96.2	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1200	96.1	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	96.4	97.1	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	96.5	97.2	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	96.7	97.4	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 700	96.7	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 600	96.7	97.6	97.8	97.9	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2
≥ 500	96.8	97.7	98.0	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
≥ 400	96.8	97.9	98.2	98.5	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9
≥ 300	97.0	98.1	98.5	98.8	98.9	99.0	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.4
≥ 200	97.1	98.2	98.6	98.9	99.1	99.1	99.2	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7
≥ 100	97.1	98.2	98.6	98.9	99.1	99.1	99.2	99.4	99.5	99.6	99.7	99.7	99.8	99.8	99.9	99.9
≥ 0	97.1	98.2	98.6	98.9	99.1	99.1	99.2	99.4	99.5	99.6	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

0.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	70.5	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 20000	76.2	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 18000	76.2	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 16000	76.2	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000	76.6	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 12000	77.7	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 10000	80.6	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 9000	80.9	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 8000	81.8	82.2	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000	82.8	83.1	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 6000	83.1	83.4	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 5000	84.2	84.5	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4500	85.3	85.7	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 4000	87.3	87.7	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3500	88.6	89.4	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3000	89.6	90.6	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2500	90.9	91.9	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 2000	91.4	92.5	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800	91.5	92.6	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	92.8	94.2	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1200	93.1	94.5	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	93.2	94.7	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	93.2	94.7	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800	93.3	94.8	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 700	93.3	95.5	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 600	93.3	95.9	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 500	93.8	96.7	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	94.2	97.1	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300	94.2	97.2	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 200	94.3	97.5	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 100	94.3	97.5	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 0	94.3	97.5	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	71.2	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 20000	76.2	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 18000	76.2	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 16000	76.2	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 14000	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 12000	77.5	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 10000	80.4	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 9000	80.6	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 8000	81.3	81.5	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 7000	82.4	82.6	82.7	82.7	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 6000	83.7	83.9	84.0	84.0	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 5000	85.2	85.4	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500	86.1	86.5	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 4000	88.3	88.6	88.7	88.7	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	89.5	90.1	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 3000	90.4	91.3	91.5	91.5	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 2500	91.5	92.5	92.7	92.7	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 2000	92.6	93.7	93.9	93.9	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1800	92.7	93.8	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	93.4	94.7	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200	93.7	94.9	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000	93.8	95.1	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	93.8	95.3	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 800	93.8	95.3	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 700	94.0	95.6	95.8	95.8	96.1	96.1	96.2	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 600	94.0	95.7	95.9	95.9	96.2	96.2	96.3	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	94.2	96.0	96.3	96.5	96.9	96.9	97.2	97.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	94.4	96.7	97.0	97.1	97.6	97.6	98.0	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 300	94.4	97.0	97.7	97.8	98.4	98.4	98.8	98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	94.5	97.1	97.8	98.0	98.6	98.6	99.0	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	94.5	97.3	98.1	98.2	98.8	98.8	99.2	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.5	97.3	98.1	98.2	98.8	98.8	99.2	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

061

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING ≥ 20000	64.6	64.6	64.6	64.7	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 18000	71.0	71.0	71.0	71.1	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000	71.2	71.2	71.2	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 14000	71.2	71.2	71.2	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 12000	71.6	71.6	71.6	71.7	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 10000	73.3	73.3	73.3	73.4	73.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 9000	77.6	77.6	77.6	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 8000	78.5	78.5	78.5	78.6	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 7000	80.4	80.4	80.4	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 6000	82.4	82.4	82.4	82.5	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000	82.9	82.9	82.9	83.0	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 4500	84.5	84.5	84.5	84.6	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4000	85.1	85.1	85.1	85.2	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3500	86.3	86.3	86.3	86.5	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 3000	88.3	88.3	88.3	88.4	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2500	89.6	89.6	89.6	89.7	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	90.6	90.6	90.6	90.8	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1800	92.3	92.5	92.5	92.6	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1500	92.3	92.6	92.6	92.7	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	93.2	93.7	93.7	93.8	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1000	94.2	94.7	94.7	94.8	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 900	94.2	94.9	94.9	95.1	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	94.2	95.2	95.2	95.4	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 700	94.2	95.2	95.2	95.5	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 600	94.2	95.2	95.2	95.5	96.2	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 500	94.3	95.3	95.3	95.7	96.6	96.6	96.8	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 400	94.9	96.1	96.3	97.0	97.8	97.8	98.1	98.2	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥ 300	95.1	96.7	97.2	97.8	98.7	98.7	98.9	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	95.1	96.9	97.4	98.2	99.1	99.1	99.4	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.1	96.9	97.4	98.2	99.1	99.1	99.4	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.1	96.9	97.4	98.2	99.1	99.1	99.4	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 20000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 18000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 16000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 14000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 12000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 10000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 8000	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 7000	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 6000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 5000	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4500	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 4000	86.8	86.9	86.9	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3500	87.3	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3000	89.0	89.1	89.1	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2500	89.5	89.6	89.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2000	91.3	91.4	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1800	91.3	91.4	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1500	92.6	93.0	93.0	93.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1200	93.0	93.5	93.7	93.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000	93.7	94.4	94.5	94.6	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.3	95.3
≥ 900	93.9	94.7	94.8	94.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.7
≥ 800	93.9	94.7	94.8	95.2	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.1
≥ 700	94.1	95.2	95.3	95.6	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.8
≥ 600	94.2	95.4	95.5	95.8	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.9	97.0	97.0
≥ 500	94.4	95.8	95.9	96.2	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.7
≥ 400	94.4	95.8	95.9	96.2	97.2	97.2	97.2	97.6	97.7	97.7	97.7	98.0	98.0	98.2	98.4	98.4
≥ 300	94.6	96.2	96.3	96.8	97.7	97.7	97.7	98.3	98.5	98.6	98.8	98.8	99.0	99.0	99.2	99.2
≥ 200	94.7	96.3	96.5	96.9	98.0	98.0	98.0	98.8	98.9	99.2	99.6	99.6	99.8	99.8	100.0	100.0
≥ 100	94.7	96.3	96.5	96.9	98.0	98.0	98.0	98.8	98.9	99.2	99.6	99.6	99.8	99.8	100.0	100.0
≥ 0	94.7	96.3	96.5	96.9	98.0	98.0	98.0	98.8	98.9	99.2	99.6	99.6	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC

FORM 7-64

0-14.5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING ≥ 20000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 16000	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 14000	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 12000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 10000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 8000	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 7000	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 6000	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 5000	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 4500	84.7	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 4000	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3000	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2500	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2000	91.2	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	91.5	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500	91.6	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	92.5	93.2	93.4	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1000	92.8	93.5	94.0	94.2	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900	93.0	93.8	94.2	94.4	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 800	93.5	94.4	94.8	95.2	95.8	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	94.2	95.3	95.7	96.0	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	94.6	95.7	96.2	96.6	97.4	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 500	95.1	96.1	96.9	97.2	98.5	98.6	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	95.1	96.2	97.2	97.5	98.8	98.9	99.0	99.5	99.5	99.5	99.5	99.6	99.7	99.7	99.7	99.7
≥ 300	95.1	96.2	97.2	97.6	98.9	99.0	99.1	99.6	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9
≥ 200	95.1	96.2	97.3	97.7	99.0	99.1	99.2	99.7	99.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0
≥ 100	95.1	96.2	97.3	97.7	99.0	99.1	99.2	99.7	99.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0
≥ 0	95.1	96.2	97.3	97.7	99.0	99.1	99.2	99.7	99.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 18000	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 16000	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 14000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 9000	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 8000	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 7000	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 4500	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4000	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3500	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 3000	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2500	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	92.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 1500	93.4	94.0	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1200	93.7	94.2	94.4	94.5	94.5	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	93.8	94.4	94.7	94.8	94.9	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900	94.1	94.9	95.3	95.4	95.5	95.7	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 800	94.3	95.2	95.6	95.7	95.9	96.1	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 700	94.4	95.4	95.9	96.1	96.6	96.8	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 600	94.4	95.8	96.3	96.7	97.1	97.3	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500	94.4	95.9	96.6	97.0	97.4	97.6	98.0	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.6
≥ 400	94.4	96.2	97.0	97.5	98.0	98.2	98.5	98.8	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.6
≥ 300	94.4	96.2	97.0	97.5	98.0	98.2	98.6	99.0	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.8
≥ 200	94.4	96.2	97.0	97.5	98.0	98.2	98.6	99.0	99.1	99.6	99.8	99.8	99.9	99.9	99.9	100.0
≥ 100	94.4	96.2	97.0	97.5	98.0	98.2	98.6	99.0	99.1	99.6	99.8	99.8	99.9	99.9	99.9	100.0
≥ 0	94.4	96.2	97.0	97.5	98.0	98.2	98.6	99.0	99.1	99.6	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-.2

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 20000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
W 18000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
W 16000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
W 14000	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
W 12000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
W 10000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
W 9000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
W 8000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
W 7000	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
W 6000	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
W 5000	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
W 4500	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
W 4000	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
W 3500	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
W 3000	91.0	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
W 2500	92.2	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
W 2000	92.6	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
W 1800	92.8	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
W 1500	93.2	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
W 1200	93.3	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
W 1000	94.0	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
W 900	94.2	95.7	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
W 800	94.4	96.2	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
W 700	94.5	96.3	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
W 600	94.5	96.5	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
W 500	94.5	96.7	96.8	96.8	97.1	97.1	97.2	97.2	97.2	97.2	97.4	97.6	97.6	97.6	97.6	97.6
W 400	94.6	97.0	97.3	97.3	97.6	97.6	97.7	97.7	97.7	97.8	97.8	98.2	98.4	98.5	98.5	98.5
W 300	94.7	97.1	97.4	97.4	97.8	97.8	98.0	98.1	98.2	98.3	98.7	98.9	99.0	99.0	99.0	99.0
W 200	94.8	97.5	97.8	98.0	98.4	98.4	98.5	98.6	98.7	98.8	99.2	99.5	99.6	99.6	99.6	99.6
W 100	94.8	97.5	97.8	98.0	98.4	98.4	98.5	98.6	98.7	98.8	99.2	99.5	99.7	99.9	99.9	100.0
W 0	94.8	97.5	97.8	98.0	98.4	98.4	98.5	98.6	98.7	98.8	99.2	99.5	99.7	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OGI

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 20000	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 18000	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 10000	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000	80.3	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 8000	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 7000	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000	84.6	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 5000	86.2	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4500	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4000	87.8	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3500	89.5	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000	90.8	91.4	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2500	91.8	92.6	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 2000	92.5	93.2	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1800	92.7	93.4	93.5	93.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1500	93.5	94.4	94.5	94.5	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	93.7	94.5	94.6	94.6	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	93.9	94.9	95.1	95.1	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	94.1	95.5	95.6	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	94.1	95.5	95.6	95.6	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 700	94.3	95.8	95.9	95.9	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 600	94.4	95.9	96.0	96.0	96.1	96.1	96.3	96.3	96.3	96.3	96.5	96.5	96.6	96.6	96.6	96.6
≥ 500	94.5	96.6	96.7	96.7	96.8	96.8	97.1	97.1	97.1	97.6	97.6	98.0	98.0	98.0	98.0	98.0
≥ 400	94.5	96.8	96.9	97.0	97.1	97.1	97.6	97.6	97.6	98.2	98.2	98.5	98.5	98.5	98.5	98.5
≥ 300	94.6	96.9	97.0	97.1	97.2	97.2	97.7	97.7	97.7	98.3	98.3	98.6	98.6	98.6	98.6	98.6
≥ 200	94.7	97.4	97.5	97.7	97.8	97.8	98.4	98.4	98.4	99.0	99.1	99.5	99.6	99.6	99.7	99.7
≥ 100	94.7	97.4	97.5	97.7	97.8	97.8	98.4	98.4	98.4	99.0	99.1	99.5	99.7	99.8	99.9	99.9
≥ 0	94.7	97.4	97.5	97.7	97.8	97.8	98.4	98.4	98.4	99.0	99.1	99.5	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 20000	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 18000	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 16000	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 14000	75.1	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 12000	76.5	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000	79.5	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 9000	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 8000	81.9	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 7000	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 6000	84.0	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 5000	85.4	85.6	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4500	86.1	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000	87.7	87.9	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3500	88.8	89.1	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000	90.1	90.5	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2500	91.1	91.6	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	92.0	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1800	92.1	92.6	92.8	92.8	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	93.1	93.9	94.0	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1200	93.4	94.2	94.4	94.5	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	93.7	94.7	94.9	94.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	93.8	94.9	95.2	95.2	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 800	93.9	95.2	95.4	95.5	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700	94.1	95.5	95.8	95.9	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 600	94.2	95.8	96.0	96.2	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 500	94.4	96.1	96.5	96.7	97.2	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	94.6	96.5	96.9	97.2	97.8	97.8	98.0	98.2	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7
≥ 300	94.6	96.7	97.2	97.5	98.1	98.2	98.4	98.6	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2
≥ 200	94.7	96.9	97.5	97.8	98.4	98.5	98.7	99.0	99.1	99.4	99.6	99.7	99.8	99.8	99.8	99.8
≥ 100	94.7	96.9	97.5	97.8	98.5	98.5	98.8	99.0	99.1	99.5	99.7	99.8	99.9	99.9	100.0	100.0
≥ "	94.7	96.9	97.5	97.8	98.5	98.5	98.8	99.0	99.1	99.5	99.7	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7480

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200
HOURS UTC

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1	≥ 0
NO CEILING ≥ 20000	61.6 65.2	62.0 65.7	62.0 65.7	62.0 65.7	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.1 65.8	62.2 65.9	62.2 65.9	62.3 66.0
≥ 18000	65.3 65.3	65.8 65.8	65.8 65.8	65.8 65.8	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	66.0 66.0	66.0 66.0	66.1 66.1
≥ 16000	65.3 65.3	65.8 65.8	65.8 65.8	65.8 65.8	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	65.9 65.9	66.0 66.0	66.0 66.0	66.1 66.1
≥ 14000	66.2 67.7	66.7 68.1	66.7 68.1	66.7 68.1	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.8 68.2	66.9 68.3	66.9 68.3	67.0 68.4
≥ 12000	67.7 70.7	68.1 71.1	68.1 71.1	68.1 71.1	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.2 71.2	68.3 71.3	68.3 71.3	68.4 71.4
≥ 10000	70.7 71.0	71.1 71.4	71.1 71.4	71.1 71.4	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.2 71.6	71.3 71.7	71.3 71.7	71.4 71.8
≥ 9000	71.0 74.1	71.4 74.7	71.4 74.7	71.4 74.7	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.6 74.8	71.7 74.9	71.7 74.9	71.8 75.0
≥ 8000	74.1 74.8	74.7 75.4	74.7 75.4	74.7 75.4	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.8 75.6	74.9 75.7	74.9 75.7	75.0 75.8
≥ 7000	74.8 75.4	75.4 76.1	75.4 76.1	75.4 76.1	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.6 76.2	75.7 76.3	75.7 76.3	75.8 76.4
≥ 6000	75.4 77.7	76.1 78.3	76.1 78.3	76.1 78.3	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.2 78.6	76.3 78.7	76.3 78.7	76.4 78.8
≥ 5000	77.7 78.4	78.3 79.1	78.3 79.1	78.3 79.1	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.6 79.3	78.7 79.4	78.7 79.4	78.8 79.6
≥ 4500	78.4 79.3	79.1 80.1	79.1 80.1	79.1 80.1	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.3 80.4	79.4 80.6	79.4 80.6	79.6 80.7
≥ 4000	79.3 80.3	80.1 81.4	80.1 81.4	80.1 81.4	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.4 81.9	80.6 82.0	80.6 82.0	80.7 82.1
≥ 3000	80.3 81.2	81.4 82.6	81.4 82.6	81.4 82.6	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	81.9 83.1	82.0 83.2	82.0 83.2	82.1 83.3
≥ 2500	81.2 83.0	82.6 84.7	82.6 84.7	82.6 84.7	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.1 85.3	83.2 85.7	83.2 85.7	83.3 85.8
≥ 2000	83.0 83.8	84.7 85.8	84.7 85.8	84.7 85.8	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.3 86.4	85.7 86.9	85.7 86.9	85.8 87.0
≥ 1800	83.8 84.4	85.8 86.8	85.8 86.8	85.8 86.8	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.4 87.1	86.9 87.2	86.9 87.2	87.0 87.3
≥ 1500	84.4 85.1	86.8 87.4	86.8 87.4	86.8 87.4	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.1 87.8	87.2 87.9	87.2 87.9	87.3 88.0
≥ 1200	85.1 85.4	87.4 87.8	87.4 87.8	87.4 87.8	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.8 88.4	87.9 88.9	87.9 88.9	88.0 89.0
≥ 1000	85.4 85.8	87.8 88.2	87.8 88.2	87.8 88.2	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.4 89.0	88.9 89.9	88.9 89.9	89.0 90.0
≥ 900	85.8 85.8	88.2 88.7	88.2 88.7	88.2 88.7	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.9 90.1	89.9 90.1	90.0 90.2
≥ 800	85.8 85.8	88.2 88.7	88.2 88.7	88.2 88.7	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	89.0 89.3	90.1 90.3	90.1 90.3	90.2 90.4
≥ 700	85.8 85.9	88.2 89.2	88.2 89.2	88.2 89.2	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	89.3 90.0	90.3 90.7	90.3 90.7	90.4 90.9
≥ 600	85.9 86.1	89.2 89.8	89.2 89.8	89.2 89.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.0 90.8	90.7 90.8	90.7 90.8	90.9 91.1
≥ 500	86.1 86.2	89.8 90.0	89.8 90.0	89.8 90.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.0	90.8 91.1	90.8 91.1	91.1 91.2
≥ 400	86.2 86.3	90.0 90.3	90.0 90.3	90.0 90.3	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.0 91.4	91.1 91.4	91.1 91.4	91.2 91.5
≥ 300	86.3 86.3	90.3 90.4	90.3 90.4	90.3 90.4	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.4 91.6	91.5 91.7	91.5 91.7	91.5 91.8
≥ 200	86.3 86.3	90.4 90.4	90.4 90.4	90.4 90.4	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.6 92.2	91.7 92.3	91.7 92.3	91.8 92.4
≥ 100	86.3 86.3	90.4 90.4	90.4 90.4	90.4 90.4	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.2 92.8	92.3 92.9	92.3 92.9	92.4 92.9
≥ 0	86.3 86.3	90.4 90.4	90.4 90.4	90.4 90.4	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.8 93.8	92.9 94.7	92.9 94.7	93.0 94.8

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING	62.6	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.2	63.2
≥ 20000	67.9	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.6	68.6
≥ 18000	68.1	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.8	68.8
≥ 16000	68.3	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	69.0	69.0
≥ 14000	68.7	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.3	69.3
≥ 12000	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.0
≥ 10000	71.9	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.6	72.6
≥ 9000	72.0	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.6	72.6	72.6	72.7	72.7
≥ 8000	74.7	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.3	75.3
≥ 7000	75.3	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.9	75.9	75.9	76.0	76.0
≥ 6000	76.0	76.3	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.8	76.8
≥ 5000	78.3	78.7	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.2	79.2
≥ 4500	79.4	79.8	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.3	80.3
≥ 4000	80.7	81.0	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.6	81.6	81.6	81.7	81.7
≥ 3500	81.0	81.3	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	82.0	82.0
≥ 3000	82.4	83.0	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.6	83.6	83.6	83.7	83.7
≥ 2500	83.6	84.4	85.1	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.6	85.6
≥ 2000	84.1	85.1	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.2	86.2
≥ 1800	84.3	85.6	86.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6	86.6	86.7	86.7
≥ 1500	84.6	85.9	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.2	87.3	87.3	87.4	87.4
≥ 1200	85.0	86.6	87.2	87.2	87.7	87.7	87.7	87.7	87.7	87.8	88.0	88.1	88.1	88.1	88.2	88.2
≥ 1000	85.3	87.0	87.7	87.7	88.2	88.2	88.2	88.2	88.6	88.7	88.9	89.0	89.0	89.0	89.1	89.1
≥ 900	85.4	87.1	87.8	87.8	88.3	88.3	88.3	88.3	88.7	88.8	89.0	89.2	89.3	89.3	89.4	89.4
≥ 800	85.7	87.3	88.0	88.0	88.6	88.6	88.6	88.6	89.0	89.1	89.3	89.6	89.7	89.7	89.8	89.8
≥ 700	85.9	87.7	88.3	88.3	88.9	88.9	88.9	88.9	89.3	89.4	89.7	90.0	90.1	90.1	90.2	90.2
≥ 600	86.1	88.2	89.0	89.0	89.6	89.6	89.6	89.9	90.6	90.7	91.0	91.3	91.4	91.4	91.6	91.6
≥ 500	86.6	88.7	89.7	90.0	90.7	90.7	91.1	91.9	92.0	92.6	93.0	93.1	93.2	93.2	93.4	93.4
≥ 400	86.7	89.0	90.0	90.4	91.1	91.1	91.6	92.3	92.4	93.1	93.9	94.0	94.1	94.1	94.3	94.3
≥ 300	86.7	89.3	90.6	91.0	92.0	92.0	92.6	93.6	93.9	94.7	95.6	95.7	95.9	95.9	96.1	96.1
≥ 200	86.7	89.6	90.9	91.3	92.4	92.4	93.0	94.3	94.8	96.0	96.9	97.0	97.4	97.6	98.1	98.2
≥ 100	86.7	89.6	90.9	91.3	92.6	92.6	93.1	94.4	94.9	96.1	97.0	97.2	97.9	98.2	98.9	99.3
≥ 0	86.7	89.6	90.9	91.3	92.6	92.6	93.1	94.4	94.9	96.1	97.0	97.2	97.9	98.2	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-3000

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .01	≥ .005	≥ 0
NO CEILING	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.9	59.9
≥ 20000	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.3	66.3
≥ 18000	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.6	66.6
≥ 16000	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.6	66.6
≥ 14000	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.7	66.7
≥ 12000	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.2	68.2
≥ 10000	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	72.0	72.0
≥ 9000	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.6	72.6
≥ 8000	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.2	77.2
≥ 7000	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	78.0	78.0
≥ 6000	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.2	78.2
≥ 5000	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.3	80.3
≥ 4500	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.0	81.0	81.0	81.0	81.0	81.3	81.3
≥ 4000	81.7	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.6	82.6
≥ 3500	81.9	82.1	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.7	82.7	82.7	82.7	82.7	83.0	83.0
≥ 3000	83.6	83.8	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.9	84.9
≥ 2500	84.3	85.1	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.8	85.9	86.1	86.1	86.2	86.4	86.4
≥ 2000	84.4	85.6	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.2	86.3	86.6	86.6	86.7	86.9	86.9
≥ 1800	84.6	85.7	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.4	86.6	86.8	86.8	86.9	87.1	87.1
≥ 1500	84.8	86.2	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.3	87.4	87.7	87.7	87.8	88.0	88.0
≥ 1200	85.2	86.7	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.6	87.9	88.0	88.2	88.2	88.3	88.6
≥ 1000	85.6	87.0	87.8	87.9	87.9	87.9	87.9	87.9	88.2	88.7	89.0	89.2	89.7	89.7	89.8	90.0
≥ 900	85.8	87.3	88.1	88.2	88.2	88.2	88.2	88.2	88.6	89.0	89.3	89.6	90.1	90.1	90.3	90.6
≥ 800	86.3	87.9	88.7	88.9	89.0	89.0	89.1	89.6	90.0	90.4	90.8	91.3	91.4	91.7	91.9	91.9
≥ 700	86.6	88.3	89.2	89.6	89.9	89.9	90.0	90.6	91.0	91.4	91.8	92.3	92.4	92.7	92.9	92.9
≥ 600	86.6	88.6	89.4	89.8	90.1	90.1	90.2	90.8	91.3	92.0	92.4	93.0	93.1	93.3	93.6	93.6
≥ 500	86.7	88.8	89.7	90.0	90.3	90.3	90.4	91.0	91.7	92.3	92.8	93.3	93.4	93.7	93.9	93.9
≥ 400	86.8	89.6	90.4	90.8	91.1	91.1	91.2	91.9	92.7	93.6	94.3	94.9	95.0	95.2	95.4	95.4
≥ 300	86.9	89.9	90.8	91.1	91.7	91.7	91.8	92.6	93.4	94.3	95.4	96.0	96.2	96.3	96.6	96.6
≥ 200	86.9	90.0	91.0	91.4	92.1	92.1	92.2	93.2	94.2	95.1	96.2	96.9	97.2	97.8	98.4	98.9
≥ 100	86.9	90.0	91.0	91.4	92.3	92.3	92.4	93.6	94.6	95.4	96.6	97.3	97.8	98.3	99.0	99.8
≥ 0	86.9	90.0	91.0	91.4	92.3	92.3	92.4	93.6	94.6	95.4	96.6	97.3	97.8	98.3	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥.4
NO CEILING	57.6	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 20000	65.8	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 18000	66.6	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3
IV 16000	66.8	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6
IV 14000	67.3	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1
IV 12000	69.9	70.4	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.7
IV 10000	73.1	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0
IV 9000	73.9	74.4	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8
IV 8000	76.8	77.4	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8
IV 7000	77.9	78.6	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.1	79.2	79.3
IV 6000	78.2	78.9	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.4	79.6	79.6	79.7
IV 5000	79.4	80.2	80.3	80.4	80.6	80.7	80.7	80.8	80.8	80.8	80.8	80.8	81.0	81.1	81.2	81.3
IV 4500	79.7	80.4	80.6	80.7	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.2	81.3	81.4	81.6
IV 4000	80.1	81.1	81.2	81.3	81.6	81.7	81.8	82.1	82.1	82.1	82.1	82.1	82.3	82.4	82.6	82.7
IV 3500	80.8	81.9	82.1	82.2	82.6	82.7	82.8	83.1	83.1	83.1	83.1	83.3	83.4	83.6	83.7	83.7
IV 3000	81.7	82.8	83.0	83.2	83.6	83.7	83.8	84.2	84.2	84.2	84.2	84.4	84.6	84.7	84.8	84.8
IV 2500	82.1	83.7	83.9	84.1	84.4	84.6	84.8	85.2	85.2	85.3	85.4	85.7	85.8	85.9	86.0	86.0
IV 2000	82.6	84.3	84.8	85.0	85.4	85.6	85.8	86.2	86.2	86.4	86.6	86.8	86.9	87.0	87.1	87.1
IV 1800	82.7	84.4	84.9	85.2	85.7	85.8	86.0	86.4	86.4	86.7	86.8	87.0	87.1	87.2	87.3	87.3
IV 1500	83.1	84.9	85.3	85.8	86.4	86.6	87.0	87.6	87.6	87.8	87.9	88.1	88.4	88.6	88.7	88.7
IV 1200	84.1	85.9	86.4	86.9	87.6	87.7	88.2	88.8	88.8	89.0	89.1	89.3	89.7	89.8	89.9	89.9
IV 1000	84.4	86.3	86.9	87.3	88.1	88.2	88.8	89.4	89.8	90.0	90.4	90.7	91.2	91.3	91.4	91.4
IV 900	84.6	86.6	87.1	87.7	88.6	88.7	89.2	89.9	90.2	90.4	90.9	91.2	91.8	91.9	92.0	92.0
IV 800	84.9	86.7	87.4	88.0	89.0	89.2	89.8	90.4	91.0	91.2	91.7	92.0	92.6	92.7	92.8	92.8
IV 700	84.9	87.0	87.6	88.1	89.2	89.4	90.0	90.8	91.3	91.8	92.2	92.6	93.1	93.2	93.3	93.3
IV 600	85.3	88.2	88.8	89.3	90.4	90.7	91.4	92.4	93.0	93.4	93.9	94.2	94.8	94.9	95.0	95.0
IV 500	85.9	88.8	89.4	90.1	91.2	91.4	92.2	93.3	93.9	94.3	95.0	95.3	96.0	96.1	96.2	96.2
IV 400	86.1	89.0	89.8	90.4	91.7	91.9	92.7	93.8	94.4	95.1	95.8	96.2	97.0	97.1	97.2	97.2
IV 300	86.1	89.8	90.4	91.7	91.9	92.8	94.0	94.7	95.4	96.2	96.7	97.7	97.8	97.9	97.9	97.9
IV 200	86.1	89.0	89.8	90.4	91.7	91.9	93.0	94.3	95.1	96.1	96.9	97.4	98.6	98.8	99.1	99.2
IV 100	86.1	89.0	89.8	90.4	91.7	91.9	93.0	94.4	95.2	96.2	97.0	97.7	98.8	99.0	99.4	99.6
IV 0	86.1	89.0	89.8	90.4	91.7	91.9	93.0	94.4	95.2	96.2	97.0	97.7	98.8	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 20000	66.2	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 18000	66.4	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	66.7	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000	67.8	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	70.1	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 10000	73.9	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 9000	75.3	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 8000	77.8	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000	79.0	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 6000	79.4	80.0	80.4	80.4	80.4	80.6	80.6	80.6	80.6	80.8	80.8	81.0	81.0	81.0	81.0	81.0
≥ 5000	80.2	80.9	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.7	81.7	81.9	81.9	81.9	81.9	81.9
≥ 4500	80.6	81.2	81.7	81.7	81.7	81.8	81.8	81.8	81.8	82.0	82.0	82.2	82.2	82.2	82.2	82.2
≥ 4000	81.9	82.6	83.0	83.0	83.0	83.2	83.2	83.2	83.2	83.4	83.4	83.7	83.7	83.7	83.8	83.8
≥ 3500	82.7	83.3	83.8	83.8	83.8	84.0	84.0	84.0	84.0	84.2	84.2	84.4	84.4	84.4	84.6	84.6
≥ 3000	83.8	84.4	85.0	85.0	85.0	85.2	85.2	85.2	85.2	85.4	85.4	85.7	85.7	85.7	85.8	85.8
≥ 2500	84.4	85.2	85.8	85.8	85.8	86.0	86.0	86.1	86.3	86.6	86.6	86.8	86.8	86.8	86.9	86.9
≥ 2000	85.1	86.3	87.0	87.0	87.3	87.6	87.6	87.7	87.9	88.1	88.1	88.3	88.3	88.3	88.4	88.4
≥ 1800	85.1	86.3	87.0	87.0	87.3	87.6	87.6	87.7	87.9	88.1	88.1	88.3	88.3	88.3	88.4	88.4
≥ 1500	86.2	87.9	88.6	88.6	88.9	89.1	89.3	89.7	89.9	90.1	90.1	90.3	90.3	90.3	90.4	90.4
≥ 1200	86.6	88.3	89.0	89.2	89.8	90.0	90.2	90.7	90.9	91.1	91.1	91.3	91.4	91.4	91.6	91.6
≥ 1000	86.7	88.8	89.4	89.8	90.3	90.6	91.3	91.8	92.0	92.3	92.3	92.6	92.7	92.7	92.8	92.8
≥ 900	86.7	88.8	89.4	89.9	90.4	90.7	91.6	92.0	92.2	92.6	92.6	92.8	92.9	92.9	93.0	93.0
≥ 800	87.0	89.6	90.2	90.8	91.3	91.6	92.4	92.9	93.1	93.4	93.4	93.7	93.8	93.8	93.9	93.9
≥ 700	87.3	89.9	90.7	91.2	91.9	92.1	93.0	93.7	93.9	94.6	94.6	94.8	94.9	94.9	95.0	95.0
≥ 600	88.0	90.6	91.6	92.1	92.8	93.0	93.9	94.6	94.8	95.4	95.4	95.7	95.8	95.8	95.9	95.9
≥ 500	88.2	91.0	92.0	92.6	93.2	93.4	94.3	95.2	95.4	96.1	96.2	96.6	96.8	96.8	96.9	96.9
≥ 400	88.4	91.2	92.2	92.9	93.7	93.9	94.8	95.7	95.9	96.9	97.0	97.3	97.6	97.6	97.7	97.7
≥ 300	88.6	91.4	92.6	93.4	94.2	94.4	95.4	96.7	97.1	98.1	98.4	98.8	99.0	99.0	99.1	99.1
≥ 200	88.6	91.4	92.6	93.7	94.4	94.7	95.8	97.0	97.4	98.4	98.8	99.1	99.4	99.6	99.8	100.0
≥ 100	88.6	91.4	92.6	93.7	94.4	94.7	95.8	97.0	97.4	98.4	98.8	99.1	99.4	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING -FEET-	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.4	≥.3	≥.25	≥.2	≥.16	≥.1
NO CEILING	55.4	55.6	55.7	55.7	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 20000	63.3	63.4	63.6	63.6	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	64.1	64.2	64.3	64.3	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000	64.3	64.4	64.6	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 14000	66.1	66.2	66.3	66.3	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 12000	69.6	69.8	69.9	69.9	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 10000	72.8	73.0	73.1	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 9000	73.8	74.0	74.1	74.1	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 8000	76.6	76.9	77.0	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 7000	77.8	78.1	78.2	78.2	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 6000	78.9	79.2	79.4	79.4	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 5000	80.3	80.7	80.9	80.9	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 4500	80.6	80.9	81.1	81.1	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4000	82.0	82.4	82.7	82.7	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	83.2	83.8	84.2	84.3	84.7	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 3000	83.6	84.2	84.7	84.8	85.3	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 2500	84.3	85.3	86.0	86.1	86.7	86.8	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2000	84.8	85.9	86.6	86.9	87.4	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 1800	85.2	86.3	87.0	87.3	87.9	88.0	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 1500	85.6	87.1	87.9	88.2	88.8	88.9	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 1200	86.0	88.0	88.8	89.3	90.1	90.2	91.0	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1000	86.4	89.0	89.8	90.4	91.2	91.4	92.4	92.6	92.6	92.7	92.9	93.0	93.0	93.0	93.0	93.0
≥ 900	86.7	89.2	90.0	90.7	91.4	91.7	92.7	92.9	92.9	93.0	93.2	93.3	93.3	93.3	93.3	93.3
≥ 800	87.0	89.6	90.3	91.0	91.8	92.0	93.1	93.3	93.3	93.4	93.7	93.8	93.8	93.8	93.8	93.8
≥ 700	87.1	90.0	90.8	91.6	92.6	92.8	93.9	94.1	94.2	94.6	94.8	94.9	95.0	95.0	95.0	95.0
≥ 600	87.6	90.7	91.7	92.6	93.6	93.8	94.9	95.4	95.6	95.9	96.1	96.2	96.3	96.3	96.3	96.3
≥ 500	87.7	91.0	92.1	93.0	94.0	94.2	95.3	95.9	96.0	96.3	96.7	96.8	96.9	97.1	97.1	97.1
≥ 400	88.2	91.6	93.0	93.9	94.9	95.1	96.2	96.8	96.9	97.2	97.6	97.7	97.9	98.1	98.1	98.1
≥ 300	88.2	91.7	93.3	94.2	95.2	95.4	96.6	97.2	97.4	97.8	98.1	98.3	98.8	99.0	99.0	99.0
≥ 200	88.2	91.7	93.3	94.2	95.2	95.4	96.6	97.2	97.6	98.1	98.6	98.8	99.4	99.7	99.7	99.8
≥ 100	88.2	91.7	93.3	94.2	95.2	95.4	96.6	97.2	97.6	98.1	98.6	98.9	99.6	99.8	99.9	100.0
≥ 100	88.2	91.7	93.3	94.2	95.2	95.4	96.6	97.2	97.6	98.1	98.6	98.9	99.6	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
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CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING ≥ 20000	56.2 63.0	56.8 63.6	56.9 63.7	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9	57.0 63.9
≥ 18000 ≥ 16000	63.1 63.4	63.7 64.0	63.8 64.1	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3	64.0 64.3
≥ 14000 ≥ 12000	65.0 67.8	65.6 68.3	65.7 68.4	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7	65.9 68.7
≥ 10000 ≥ 9000	71.4 71.8	72.0 72.3	72.1 72.4	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7	72.3 72.7
≥ 8000 ≥ 7000	74.1 76.1	75.0 77.0	75.1 77.1	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3	75.3 77.3
≥ 6000 ≥ 5000	77.7 78.7	78.6 79.8	78.7 79.9	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1	78.9 80.1
≥ 4500 ≥ 4000	79.0 80.2	80.1 81.4	80.2 81.6	80.4 81.9	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1	80.4 82.1
≥ 3500 ≥ 3000	81.1 81.6	82.6 83.2	82.7 83.3	83.0 83.7	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9	83.2 83.9
≥ 2500 ≥ 2000	82.6 83.2	84.4 85.3	84.6 85.7	84.9 86.0	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2	85.1 86.2
≥ 1800 ≥ 1500	83.3 84.0	85.4 86.3	85.8 86.7	86.1 87.0	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6	86.3 87.6
≥ 1200 ≥ 1000	84.7 85.1	87.2 88.3	87.7 88.8	88.0 89.1	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7	88.6 89.7
≥ 900 ≥ 800	85.6 85.7	88.9 89.1	89.3 89.6	89.7 89.9	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4	90.2 90.4
≥ 700 ≥ 600	86.0 86.3	90.3 91.2	90.9 91.8	91.2 92.1	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7	91.8 92.7
≥ 500 ≥ 400	87.1 87.3	92.1 92.7	92.7 93.3	93.0 93.9	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6	93.7 94.6
≥ 300 ≥ 200	87.3 87.3	92.8 92.8	93.6 93.6	94.1 94.2	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1	94.9 95.1
≥ 100 ≥ 0	87.3 87.3	92.8 92.8	93.6 93.6	94.2 94.2	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1	95.1 95.1

TOTAL NUMBER OF OBSERVATIONS 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	58.7	59.1	59.1	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4
≥ 20000	64.0	64.6	64.6	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9
≥ 18000	64.0	64.6	64.6	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9
≥ 16000	64.0	64.6	64.6	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9
≥ 14000	65.1	65.7	65.7	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0
≥ 12000	66.4	67.0	67.0	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3
≥ 10000	69.1	69.7	69.7	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0
≥ 9000	69.9	70.4	70.4	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.8	70.8
≥ 8000	72.9	73.8	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1
≥ 7000	74.4	75.3	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7
≥ 6000	75.3	76.2	76.2	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.6	76.6
≥ 5000	76.6	77.7	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.3	78.3
≥ 4500	77.1	78.2	78.4	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	79.0	79.0
≥ 4000	78.6	79.7	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.7	80.7
≥ 3500	79.4	80.6	80.9	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.6	81.6
≥ 3000	80.0	81.2	81.6	81.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.3	82.3
≥ 2500	81.4	82.8	83.1	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.1	84.1
≥ 2000	82.7	84.4	84.8	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.8	85.8
≥ 1800	82.8	84.6	84.9	85.0	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.9	85.9
≥ 1500	83.1	84.9	85.2	85.3	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.6	86.6
≥ 1200	84.1	85.9	86.2	86.3	87.1	87.1	87.3	87.3	87.4	87.4	87.4	87.6	87.6	87.6	87.8	87.8
≥ 1000	84.4	86.3	86.7	86.9	87.9	87.9	88.1	88.2	88.3	88.3	88.6	88.6	88.6	88.6	88.8	88.8
≥ 900	84.7	86.8	87.1	87.3	88.3	88.3	88.6	88.8	88.9	89.1	89.3	89.4	89.4	89.4	89.7	89.7
≥ 800	84.8	87.2	87.6	87.8	88.8	88.8	89.0	89.2	89.3	89.6	89.8	89.9	89.9	89.9	90.1	90.1
≥ 700	85.2	88.1	88.4	88.7	89.7	89.7	89.9	90.1	90.2	90.4	90.9	91.0	91.0	91.1	91.4	91.4
≥ 600	85.4	88.7	89.1	89.3	90.3	90.3	90.8	91.2	91.7	92.0	92.4	92.6	92.7	92.7	93.0	93.0
≥ 500	86.0	90.3	90.8	91.0	92.0	92.3	92.8	93.4	94.0	94.3	94.8	94.9	95.0	95.0	95.3	95.3
≥ 400	86.1	90.6	91.3	91.6	92.6	92.9	93.4	94.1	94.7	95.0	95.4	95.6	95.7	95.7	96.0	96.0
≥ 300	86.2	90.9	92.2	92.4	93.4	93.9	94.6	95.3	95.9	96.3	96.9	97.0	97.3	97.3	97.7	97.7
≥ 200	86.2	91.0	92.4	92.8	93.8	94.2	95.0	95.8	96.4	96.9	97.4	97.7	98.3	98.3	98.7	99.3
≥ 100	86.2	91.0	92.6	92.9	93.9	94.3	95.1	95.9	96.6	97.0	97.6	97.8	98.4	98.4	99.2	100.0
U	86.2	91.0	92.6	92.9	93.9	94.3	95.1	95.9	96.6	97.0	97.6	97.8	98.4	98.4	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING -FEET-	VISIBILITY -STATUTE MILES-															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.9	≥.8	≥.7	≥.6	≥.5	≥0
NO CEILING	58.8	59.1	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4
IV 20000	65.2	65.6	65.6	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9
IV 18000	65.5	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2
IV 16000	65.6	66.0	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3
IV 14000	66.6	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.3	67.3
IV 12000	68.6	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.3	69.3
IV 10000	71.8	72.2	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.6	72.6
IV 9000	72.5	72.9	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.3
IV 8000	75.5	76.0	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.4
IV 7000	76.6	77.2	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.6	77.6
IV 6000	77.3	77.9	78.0	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.4	78.4
IV 5000	78.9	79.5	79.7	79.7	79.8	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.1	80.1	80.2	80.2
IV 4500	79.4	80.1	80.2	80.3	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.7	80.8	80.8
IV 4000	80.6	81.3	81.5	81.6	81.8	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.1	82.1	82.2	82.2
IV 3500	81.3	82.1	82.4	82.5	82.7	82.8	82.8	82.8	82.8	82.9	82.9	83.0	83.0	83.1	83.2	83.2
IV 3000	82.2	83.2	83.5	83.6	83.8	83.9	83.9	84.0	84.0	84.1	84.1	84.2	84.2	84.2	84.3	84.3
IV 2500	83.2	84.3	84.9	85.0	85.3	85.3	85.4	85.5	85.6	85.6	85.7	85.8	85.8	85.8	85.9	85.9
IV 2000	83.8	85.3	85.8	86.0	86.3	86.4	86.5	86.6	86.6	86.7	86.8	86.8	86.9	86.9	87.0	87.0
IV 1800	84.0	85.6	86.1	86.2	86.6	86.6	86.7	86.8	86.8	86.9	87.0	87.1	87.1	87.1	87.2	87.3
IV 1500	84.5	86.3	86.8	87.0	87.4	87.5	87.7	87.9	87.9	88.1	88.1	88.2	88.3	88.3	88.4	88.4
IV 1200	85.1	87.0	87.6	87.8	88.3	88.4	88.6	88.8	88.9	89.0	89.1	89.2	89.3	89.3	89.4	89.4
IV 1000	85.4	87.6	88.2	88.5	89.0	89.1	89.5	89.7	89.9	90.1	90.3	90.4	90.5	90.5	90.6	90.7
IV 900	85.6	87.8	88.4	88.8	89.3	89.4	89.8	90.1	90.3	90.5	90.7	90.9	91.0	91.0	91.1	91.2
IV 800	85.9	88.2	88.8	89.2	89.8	89.9	90.3	90.6	90.8	91.1	91.3	91.5	91.6	91.7	91.8	91.8
IV 700	86.1	88.7	89.4	89.8	90.4	90.5	90.9	91.3	91.5	91.9	92.2	92.4	92.6	92.7	92.8	92.8
IV 600	86.4	89.4	90.1	90.5	91.2	91.3	91.8	92.5	92.8	93.2	93.5	93.8	93.9	94.0	94.1	94.1
IV 500	86.8	90.1	90.8	91.3	92.0	92.2	92.7	93.5	93.8	94.3	94.7	94.9	95.2	95.2	95.4	95.5
IV 400	87.0	90.4	91.3	91.9	92.6	92.8	93.3	94.1	94.5	95.1	95.6	95.8	96.1	96.2	96.4	96.4
IV 300	87.0	90.7	91.8	92.3	93.2	93.4	94.0	94.9	95.4	96.0	96.7	97.0	97.3	97.4	97.6	97.6
IV 200	87.0	90.7	91.9	92.5	93.4	93.6	94.3	95.3	95.9	96.7	97.4	97.8	98.3	98.4	98.8	99.2
IV 100	87.0	90.7	91.9	92.6	93.5	93.7	94.4	95.4	96.0	96.8	97.5	97.9	98.5	98.7	99.3	99.8
IV 0	87.0	90.7	91.9	92.6	93.5	93.7	94.4	95.4	96.0	96.8	97.5	97.9	98.5	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING ≥ 20000	62.0	63.1	63.1	63.1	63.1	63.1	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.6	63.6
≥ 18000	66.4	67.5	67.5	67.5	67.5	67.5	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	68.0	68.0
≥ 16000	66.5	67.6	67.6	67.6	67.6	67.6	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	68.1	68.1
≥ 14000	66.5	67.6	67.6	67.6	67.6	67.6	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	68.1	68.1
≥ 12000	67.1	68.1	68.1	68.1	68.1	68.1	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.7	68.7
≥ 10000	68.7	69.8	69.8	69.8	69.8	69.8	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.3	70.3
≥ 9000	71.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.8	72.8
≥ 8000	71.6	72.7	72.7	72.7	72.7	72.7	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.2	73.2
≥ 7000	73.8	74.9	74.9	75.0	75.0	75.0	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.6	75.6
≥ 6000	74.5	75.6	75.6	75.7	75.7	75.7	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.2	76.2
≥ 5000	76.1	77.2	77.2	77.3	77.3	77.3	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.8	77.8
≥ 4500	77.9	79.2	79.2	79.3	79.3	79.3	79.5	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.9	79.9
≥ 4000	78.0	79.3	79.3	79.4	79.4	79.4	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	80.0	80.0
≥ 3500	79.4	80.9	80.9	81.1	81.1	81.1	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.6	81.6
≥ 3000	80.0	81.8	81.8	81.9	81.9	81.9	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.5	82.5
≥ 2500	81.3	83.2	83.2	83.4	83.4	83.4	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	84.0	84.0
≥ 2000	82.6	84.6	84.6	84.8	84.8	84.8	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.4	85.4
≥ 1800	83.1	85.8	85.9	86.7	86.7	86.7	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.2	87.2
≥ 1500	83.2	85.9	86.0	86.8	86.8	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.3	87.3
≥ 1200	83.7	86.6	87.0	87.8	87.8	87.8	88.2	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.7	88.7
≥ 1000	84.1	87.2	87.4	88.3	88.3	88.3	88.7	88.8	88.8	89.1	89.2	89.2	89.2	89.2	89.5	89.5
≥ 900	84.7	87.9	88.4	89.2	89.2	89.2	89.7	90.1	90.2	90.5	90.6	90.6	90.6	90.6	90.9	90.9
≥ 800	84.9	88.2	88.6	89.5	89.5	89.5	89.9	90.3	90.4	91.1	91.2	91.2	91.2	91.2	91.4	91.4
≥ 700	85.3	88.6	89.1	90.0	90.0	90.0	90.4	91.0	91.1	91.7	91.8	91.8	91.8	91.8	92.0	92.0
≥ 600	85.4	89.1	89.7	90.5	90.5	90.5	91.0	91.5	91.6	92.4	92.5	92.5	92.5	92.5	92.7	92.7
≥ 500	85.8	89.7	90.2	91.2	91.4	91.4	91.8	92.4	92.5	93.2	93.3	93.3	93.3	93.3	93.5	93.5
≥ 400	86.1	90.1	90.6	91.7	91.9	91.9	92.5	93.0	93.1	94.1	94.2	94.2	94.2	94.2	94.4	94.7
≥ 300	86.2	90.2	90.7	91.8	92.1	92.1	92.7	93.2	93.3	94.3	94.5	94.5	94.5	94.5	94.9	95.3
≥ 200	86.5	90.9	91.6	92.7	93.2	93.2	93.8	94.6	94.7	95.7	95.9	96.0	96.1	96.2	96.4	96.8
≥ 100	86.5	90.9	91.6	92.7	93.2	93.3	93.9	94.7	95.0	96.2	96.8	97.0	97.2	97.5	98.2	98.5
U	86.5	90.9	91.6	92.8	93.4	93.5	94.2	95.0	95.4	96.6	97.1	97.3	97.8	98.2	99.2	99.8
	86.5	90.9	91.6	92.8	93.4	93.5	94.2	95.0	95.4	96.6	97.1	97.3	97.8	98.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0100-0500

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0
NO CEILING ≥ 20000	63.9	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7
≥ 18000	67.1	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.7	67.8	68.0	68.0	68.0	68.0	68.0	68.0
≥ 16000	67.1	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.7	67.8	68.0	68.0	68.0	68.0	68.0	68.0
≥ 14000	67.5	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	68.2	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	71.5	72.0	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4
≥ 9000	72.0	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9
≥ 8000	74.2	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.9	75.1	75.1	75.1	75.1	75.1	75.1
≥ 7000	75.1	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9
≥ 6000	76.6	77.2	77.2	77.3	77.4	77.4	77.5	77.5	77.5	77.6	77.7	77.7	77.7	77.7	77.7	77.7
≥ 5000	78.0	78.6	78.6	78.7	78.8	78.8	78.9	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1
≥ 4500	78.0	78.6	78.6	78.7	78.8	78.8	78.9	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1
≥ 4000	79.6	80.3	80.3	80.4	80.5	80.5	80.6	80.6	80.6	80.8	80.9	80.9	80.9	80.9	80.9	80.9
≥ 3500	80.0	81.1	81.1	81.2	81.3	81.3	81.4	81.4	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3000	81.1	82.3	82.4	82.5	82.7	82.7	82.8	82.8	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2500	82.3	83.7	83.8	84.0	84.3	84.3	84.4	84.4	84.4	84.5	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2000	84.3	85.7	86.1	86.3	86.7	86.7	86.8	86.8	86.8	86.9	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1800	84.3	85.8	86.2	86.5	86.8	86.8	86.9	86.9	86.9	87.0	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	84.9	86.7	87.2	87.4	88.0	88.2	88.5	88.5	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1200	85.2	87.0	87.5	87.7	88.3	88.5	89.0	89.0	89.0	89.4	89.5	89.5	89.5	89.5	89.5	89.5
≥ 1000	85.2	87.0	87.5	87.7	88.3	88.5	89.0	89.0	89.0	89.4	89.5	89.5	89.5	89.5	89.5	89.5
≥ 900	85.4	87.3	87.8	88.1	88.6	88.8	89.4	89.4	89.5	89.9	90.1	90.1	90.1	90.1	90.1	90.1
≥ 800	85.5	87.6	88.2	88.4	88.9	89.1	89.7	89.7	89.8	90.2	90.5	90.5	90.6	90.6	90.6	90.6
≥ 700	85.8	88.1	88.6	88.8	89.4	89.6	90.1	90.1	90.2	90.6	91.0	91.0	91.1	91.1	91.1	91.1
≥ 600	86.3	88.8	89.5	89.9	90.5	90.8	91.4	91.4	91.5	91.9	92.3	92.3	92.4	92.4	92.4	92.4
≥ 500	86.3	88.9	89.6	90.2	91.0	91.2	91.9	92.0	92.2	92.7	93.0	93.0	93.2	93.2	93.2	93.7
≥ 400	86.9	89.9	90.8	91.4	92.2	92.4	93.1	93.2	93.4	94.3	94.6	94.6	94.8	94.8	94.8	95.4
≥ 300	87.3	90.4	91.3	92.2	93.0	93.2	94.1	94.2	94.6	95.6	95.9	95.9	96.3	96.3	96.6	97.1
≥ 200	87.3	90.4	91.3	92.2	93.2	93.5	94.4	94.6	95.1	96.2	96.7	96.7	97.6	97.6	98.0	98.7
≥ 100	87.3	90.4	91.3	92.2	93.5	93.9	94.7	94.9	95.5	96.7	97.1	97.1	98.1	98.3	98.6	99.7
≥ 0	87.3	90.4	91.3	92.2	93.5	93.9	94.7	94.9	95.5	96.7	97.2	97.2	98.2	98.4	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	56.2	56.9	57.2	57.2	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5
≥ 20000	62.2	62.8	63.1	63.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4
≥ 18000	62.3	62.9	63.2	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5
≥ 16000	62.3	62.9	63.2	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5
≥ 14000	62.8	63.4	63.8	63.8	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1
≥ 12000	64.2	64.8	65.2	65.2	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6
≥ 10000	68.4	69.2	69.6	69.6	69.8	69.8	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1
≥ 9000	69.1	70.0	70.3	70.3	70.5	70.5	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9
≥ 8000	72.2	73.1	73.4	73.4	73.7	73.7	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0
≥ 7000	73.3	74.3	74.6	74.6	74.8	74.8	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2
≥ 6000	74.6	75.6	75.9	75.9	76.1	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.5	76.5
≥ 5000	77.5	78.8	79.1	79.1	79.4	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7
≥ 4500	77.5	78.8	79.1	79.1	79.4	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.7
≥ 4000	79.9	81.3	81.6	81.6	81.8	81.8	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.2
≥ 3500	80.8	82.2	82.6	82.6	82.8	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1
≥ 3000	81.7	83.1	83.5	83.5	83.9	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2
≥ 2500	83.3	84.8	85.3	85.3	85.7	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0	86.0
≥ 2000	84.4	86.3	86.8	87.1	87.5	87.5	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1
≥ 1800	84.4	86.5	86.9	87.2	87.7	87.7	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.5	88.5
≥ 1500	84.5	86.6	87.0	87.3	87.8	87.8	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7
≥ 1200	84.9	87.0	87.4	87.8	88.4	88.5	88.9	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.5	89.6
≥ 1000	85.1	87.1	87.6	88.1	88.6	88.7	89.1	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.7	89.8
≥ 900	85.7	88.0	88.5	89.1	89.7	89.8	90.2	90.5	90.5	90.5	90.5	90.6	90.8	90.8	90.9	91.0
≥ 800	86.2	88.7	89.2	89.9	90.4	90.5	91.0	91.4	91.5	91.7	91.8	91.9	92.2	92.3	92.4	92.5
≥ 700	86.3	88.8	89.4	90.1	90.6	90.8	91.2	91.7	91.8	92.0	92.2	92.3	92.5	92.6	92.7	92.8
≥ 600	86.5	89.4	89.9	90.6	91.2	91.3	91.7	92.4	92.5	92.7	92.8	92.9	93.1	93.2	93.3	93.4
≥ 500	87.0	90.0	90.5	91.4	91.9	92.0	92.6	93.3	93.4	94.1	94.2	94.3	94.6	94.7	95.2	95.6
≥ 400	87.1	90.6	91.2	92.2	92.7	92.8	93.3	94.2	94.3	94.9	95.1	95.2	95.6	95.7	96.1	96.7
≥ 300	87.1	90.9	91.7	92.8	93.4	93.7	94.3	95.2	95.3	96.1	96.2	96.3	96.9	97.1	97.7	98.3
≥ 200	87.1	90.9	91.7	92.8	93.4	93.7	94.4	95.4	95.5	96.6	96.7	96.8	97.4	97.7	98.9	99.6
≥ 100	87.1	90.9	91.7	92.8	93.5	93.8	94.5	95.5	95.6	96.7	96.8	96.9	97.5	97.8	99.2	100.0
≥ 0	87.1	90.9	91.7	92.8	93.5	93.8	94.5	95.5	95.6	96.7	96.8	96.9	97.5	97.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1.5	≥ 1.5	≥ 1	≥ 1	≥ .5	≥ .5	≥ .5	≥ .5	≥ .5
NO CEILING	53.2	53.9	54.1	54.1	54.3	54.4	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 20000	62.2	62.9	63.2	63.2	63.4	63.5	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	62.9	63.7	64.0	64.0	64.2	64.3	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 16000	62.9	63.7	64.0	64.0	64.2	64.3	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 14000	63.9	64.6	64.9	64.9	65.2	65.3	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 12000	65.9	66.7	67.0	67.0	67.2	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 10000	70.1	70.9	71.2	71.2	71.4	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 9000	70.4	71.4	71.7	71.7	71.9	72.0	72.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 8000	73.8	74.8	75.2	75.2	75.4	75.5	75.5	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 7000	75.9	77.0	77.3	77.3	77.5	77.6	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 6000	77.3	78.5	78.8	78.9	79.2	79.4	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 5000	79.4	80.5	81.0	81.1	81.5	81.6	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500	79.8	81.0	81.4	81.5	81.9	82.0	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	81.6	82.8	83.4	83.7	84.1	84.2	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 3500	81.9	83.1	83.8	84.0	84.4	84.5	84.6	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 3000	83.0	84.3	84.9	85.4	85.9	86.0	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2500	83.8	85.5	86.1	86.6	87.1	87.2	87.4	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000	84.0	86.3	87.0	87.7	88.3	88.4	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1800	84.0	86.3	87.0	87.7	88.3	88.4	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 1500	84.5	87.1	87.7	88.6	89.2	89.4	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200	85.1	88.0	88.6	89.6	90.2	90.3	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1000	85.5	88.4	89.0	90.0	90.6	90.8	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 900	85.6	88.5	89.1	90.1	90.8	90.9	91.5	92.3	92.4	92.4	92.4	92.5	92.7	92.7	92.7	92.7
≥ 800	86.1	89.2	89.9	90.9	91.6	91.7	92.4	93.4	93.5	93.5	93.5	93.7	94.0	94.0	94.0	94.0
≥ 700	86.1	89.4	90.1	91.1	91.8	91.9	92.8	93.9	94.0	94.1	94.1	94.2	94.4	94.5	94.5	94.5
≥ 600	86.3	89.8	90.5	91.6	92.4	92.6	93.4	94.8	94.9	95.2	95.3	95.5	95.6	95.6	95.6	95.6
≥ 500	86.8	90.2	91.1	92.2	93.0	93.2	94.2	95.6	95.7	95.9	96.0	96.2	96.5	96.5	96.5	96.5
≥ 400	86.8	90.2	91.1	92.2	93.0	93.2	94.3	95.8	95.9	96.2	96.5	96.8	97.1	97.1	97.1	97.1
≥ 300	86.8	90.3	91.2	92.5	93.3	93.5	94.6	96.1	96.2	96.6	96.8	97.1	97.4	97.5	97.5	97.5
≥ 200	86.8	90.3	91.2	92.5	93.4	93.7	94.7	96.2	96.3	96.8	97.2	97.5	97.8	98.1	98.1	98.1
≥ 100	86.8	90.3	91.2	92.5	93.4	93.7	94.8	96.3	96.5	96.9	97.4	97.7	98.2	98.4	98.4	98.4
≥ 0	86.8	90.3	91.2	92.5	93.4	93.7	94.8	96.3	96.5	96.9	97.4	97.7	98.2	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 910

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING -FEET-	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	51.9	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5
≥ 20000	63.3	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	64.9	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5
≥ 16000	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7
≥ 14000	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2
≥ 12000	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4
≥ 10000	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3
≥ 9000	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5
≥ 8000	76.5	77.4	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8
≥ 7000	78.4	79.4	79.6	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.9	79.9	79.9	79.9	79.9	79.9
≥ 6000	80.0	81.0	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5
≥ 5000	81.5	82.6	82.8	82.8	82.8	82.8	82.8	82.9	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4500	81.7	82.8	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000	84.8	85.9	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500	85.1	86.2	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3000	85.9	87.6	87.8	88.1	88.1	88.1	88.1	88.2	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2500	86.2	88.0	88.2	88.4	88.5	88.5	88.5	88.7	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1
≥ 2000	86.9	89.2	89.5	89.8	89.9	89.9	89.9	90.2	90.5	90.5	90.8	90.8	90.8	90.9	90.9	90.9
≥ 1800	87.0	89.4	89.6	89.9	90.0	90.0	90.0	90.3	90.6	90.6	90.9	90.9	90.9	91.0	91.0	91.0
≥ 1500	87.1	89.5	89.7	90.0	90.1	90.1	90.1	90.6	91.0	91.0	91.2	91.3	91.3	91.4	91.4	91.4
≥ 1200	88.0	90.3	90.5	90.9	91.1	91.1	91.1	91.6	92.2	92.2	92.5	92.6	92.6	92.7	92.7	92.7
≥ 1000	88.1	90.5	90.8	91.2	91.4	91.4	91.4	91.9	92.9	93.0	93.4	93.7	93.7	93.8	93.8	93.8
≥ 900	88.1	90.9	91.1	91.7	91.9	92.0	92.0	92.6	93.5	93.7	94.1	94.3	94.3	94.4	94.4	94.4
≥ 800	88.5	91.5	91.7	92.4	92.6	92.7	92.7	93.2	94.3	94.4	94.8	95.1	95.1	95.3	95.3	95.3
≥ 700	88.5	91.8	92.2	92.8	93.2	93.3	93.3	93.9	94.9	95.1	95.7	95.9	95.9	96.1	96.1	96.1
≥ 600	88.5	91.9	92.3	92.9	93.4	93.5	93.5	94.1	95.2	95.3	96.0	96.3	96.5	96.7	96.7	96.7
≥ 500	88.6	92.0	92.4	93.0	93.5	93.7	93.7	94.2	95.3	95.4	96.1	96.5	96.6	96.8	96.8	96.8
≥ 400	88.6	92.2	92.6	93.4	94.0	94.1	94.1	94.6	95.8	95.9	96.8	97.1	97.3	97.6	97.6	97.6
≥ 300	88.6	92.2	92.6	93.4	94.1	94.2	94.2	94.7	95.9	96.1	97.1	97.4	97.6	98.1	98.1	98.1
≥ 200	88.6	92.2	92.6	93.5	94.3	94.4	94.4	94.9	96.1	96.3	97.3	97.7	98.0	98.5	98.5	98.5
≥ 100	88.6	92.2	92.6	93.5	94.3	94.4	94.4	94.9	96.1	96.3	97.4	97.8	98.1	98.6	98.6	98.6
≥ 0	88.6	92.2	92.6	93.5	94.3	94.4	94.4	94.9	96.1	96.3	97.4	97.8	98.1	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING (≥ 20000)	53.9	54.1	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 18000 ≥ 16000	63.8	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5
≥ 14000 ≥ 12000	64.4	64.7	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0
≥ 10000 ≥ 8000	64.7	65.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3
≥ 6000 ≥ 4000	66.1	66.4	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.7
≥ 3000 ≥ 2000	70.2	70.6	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9
≥ 1800 ≥ 1500	74.0	74.4	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.9
≥ 1200 ≥ 1000	74.7	75.1	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7
≥ 800 ≥ 600	78.4	79.0	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.5
≥ 400 ≥ 300	80.3	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5
≥ 200 ≥ 100	81.2	81.8	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3
≥ 50 ≥ 0	82.2	83.0	83.2	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.1
≥ 10 ≥ 0	82.6	83.4	83.6	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 5 ≥ 0	83.7	84.7	84.9	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8
≥ 2 ≥ 0	85.1	86.7	86.9	87.5	87.5	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9
≥ 1 ≥ 0	85.7	87.5	87.8	88.5	88.6	88.6	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.1
≥ .5 ≥ .2	86.2	88.1	88.5	89.3	89.3	89.3	89.5	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0
≥ .1 ≥ .05	87.1	89.2	89.9	91.0	91.1	91.1	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.7
≥ .01 ≥ 0	87.2	89.3	90.0	91.1	91.2	91.2	91.5	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8
≥ .001 ≥ 0	87.3	89.6	90.3	91.4	91.6	91.6	91.9	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.2
≥ .0001 ≥ 0	87.6	90.1	90.9	91.9	92.1	92.1	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.9
≥ .00001 ≥ 0	87.8	90.5	91.3	92.4	92.6	92.6	92.9	93.0	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.5
≥ .000001 ≥ 0	88.1	90.7	91.6	92.7	92.9	92.9	93.2	93.3	93.4	93.6	93.6	93.8	93.8	93.8	93.8	93.9
≥ .0000001 ≥ 0	88.2	91.0	91.8	92.9	93.1	93.1	93.4	93.5	93.6	94.0	94.0	94.3	94.4	94.4	94.5	94.8
≥ .00000001 ≥ 0	88.2	91.2	92.4	93.8	94.0	94.0	94.3	94.4	94.5	94.8	94.8	95.2	95.3	95.3	95.4	96.0
≥ .000000001 ≥ 0	88.2	91.2	92.5	93.9	94.1	94.2	94.5	94.6	94.7	95.5	95.5	95.8	95.9	95.9	96.0	96.8
≥ .0000000001 ≥ 0	88.2	91.2	92.5	93.9	94.1	94.2	94.5	94.6	94.7	95.5	95.5	95.8	96.0	96.1	96.2	97.0
≥ .00000000001 ≥ 0	88.4	91.4	92.7	94.2	94.4	94.5	94.8	95.0	95.2	95.9	96.0	96.4	96.8	96.9	97.0	97.7
≥ .000000000001 ≥ 0	88.5	91.5	93.0	94.5	94.8	94.9	95.3	95.5	95.6	96.3	96.4	96.7	97.1	97.4	97.6	98.7
≥ .0000000000001 ≥ 0	88.5	91.5	93.0	94.5	94.8	94.9	95.3	95.5	95.6	96.4	96.7	97.3	97.6	97.8	98.2	99.2
≥ .00000000000001 ≥ 0	88.5	91.5	93.0	94.5	94.8	94.9	95.3	95.5	95.6	96.4	96.7	97.3	97.8	98.2	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 929

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥.0
NO CEILING	54.8	55.4	55.7	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0
≥ 20000	63.3	64.0	64.4	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7
≥ 18000	63.6	64.4	64.7	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0
≥ 16000	63.6	64.4	64.7	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0
≥ 14000	63.9	64.7	65.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3
≥ 12000	67.0	68.0	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7
≥ 10000	70.7	71.8	72.1	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5
≥ 9000	71.5	72.6	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2	73.2
≥ 8000	73.4	74.5	74.8	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2
≥ 7000	75.5	76.6	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2
≥ 6000	77.6	78.7	79.0	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4
≥ 5000	80.1	81.3	81.7	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2
≥ 4500	80.3	81.5	82.0	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4
≥ 4000	81.2	82.5	82.9	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4
≥ 3500	82.4	84.0	84.6	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.1	85.1
≥ 3000	83.2	85.1	85.6	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2
≥ 2500	83.9	85.9	86.6	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.3	87.3
≥ 2000	84.7	86.6	87.4	87.6	87.8	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0
≥ 1800	84.9	86.8	87.6	87.8	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.3
≥ 1500	85.4	87.6	88.4	88.9	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.4	89.4
≥ 1200	85.7	88.2	89.2	89.6	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.4
≥ 1000	86.7	89.7	90.7	91.1	91.5	91.6	91.7	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.1	92.2
≥ 900	87.4	90.5	91.5	91.9	92.2	92.3	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.9	93.0	93.1
≥ 800	87.5	90.8	92.0	92.5	92.9	93.0	93.4	93.5	93.5	93.5	93.5	93.5	93.5	94.1	94.5	94.6
≥ 700	87.5	90.8	92.0	92.5	92.9	93.0	93.4	93.6	93.6	93.7	93.7	94.0	94.3	94.7	94.8	94.8
≥ 600	87.8	91.4	92.8	93.4	93.7	93.8	94.3	94.5	94.5	94.6	94.6	94.8	95.1	95.6	95.8	95.8
≥ 500	88.2	92.2	93.7	94.4	94.7	94.8	95.2	95.5	95.5	95.7	95.7	95.9	96.3	96.8	97.2	97.2
≥ 400	88.3	92.4	94.0	94.6	94.9	95.0	95.5	95.7	95.7	95.9	95.9	96.1	96.9	97.3	97.7	97.9
≥ 300	88.4	92.5	94.1	94.7	95.0	95.1	95.7	95.9	95.9	96.3	96.3	96.7	97.4	97.8	98.3	98.5
≥ 200	88.4	92.7	94.2	94.8	95.1	95.2	96.0	96.3	96.3	96.9	97.0	97.3	98.2	98.7	99.4	99.6
≥ 100	88.4	92.7	94.2	94.8	95.1	95.2	96.0	96.3	96.3	96.9	97.0	97.3	98.4	98.9	99.8	100.0
≥ 0	88.4	92.7	94.2	94.8	95.1	95.2	96.0	96.3	96.3	96.9	97.0	97.3	98.4	98.9	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 926

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING ≥ 20000	57.1	57.6	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0
≥ 18000	64.1	64.6	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0
≥ 16000	64.6	65.2	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6
≥ 14000	65.3	65.8	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.3
≥ 12000	67.6	68.2	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.7
≥ 10000	69.9	70.4	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9	71.0
≥ 9000	70.2	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.3
≥ 8000	72.5	73.0	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5	73.6
≥ 7000	74.8	75.3	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.8
≥ 6000	76.4	76.9	77.1	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.5	77.6
≥ 5000	78.2	78.9	79.1	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.5
≥ 4500	78.5	79.2	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	79.8
≥ 4000	80.7	81.4	81.7	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.2
≥ 3500	82.2	83.0	83.2	83.4	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.7	83.8
≥ 3000	83.4	84.8	85.1	85.3	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.7	85.8
≥ 2500	84.6	86.2	86.5	86.8	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.4
≥ 2000	85.5	87.2	87.6	88.2	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.0
≥ 1800	85.5	87.2	87.6	88.2	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	89.0
≥ 1500	86.2	88.3	88.8	89.4	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.3
≥ 1200	86.5	88.9	89.3	90.0	90.5	90.5	90.8	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.2	91.3
≥ 1000	87.2	89.5	90.0	90.9	91.6	91.6	91.9	92.1	92.1	92.1	92.3	92.6	92.6	92.6	92.7	92.8
≥ 900	87.5	90.0	90.4	91.4	92.0	92.0	92.3	92.7	92.7	92.9	93.1	93.1	93.1	93.1	93.2	93.3
≥ 800	87.6	90.2	90.6	91.7	92.3	92.3	92.7	93.0	93.0	93.5	93.7	94.0	94.1	94.1	94.2	94.3
≥ 700	87.7	90.4	90.9	92.0	92.7	92.7	93.0	93.5	93.5	94.2	94.4	94.6	94.7	94.7	94.8	94.9
≥ 600	88.3	91.3	92.0	93.2	94.0	94.0	94.3	94.8	94.8	95.5	95.7	95.9	96.0	96.0	96.2	96.3
≥ 500	88.3	91.6	92.4	93.6	94.5	94.5	94.9	95.5	95.5	96.1	96.3	96.5	96.9	97.0	97.2	97.3
≥ 400	88.5	91.8	92.7	93.9	94.7	94.7	95.1	95.7	95.7	96.3	96.5	96.8	97.1	97.2	97.4	97.5
≥ 300	88.5	91.9	92.8	94.2	95.5	95.5	95.9	96.5	96.7	97.4	97.7	98.0	98.3	98.4	98.6	98.7
≥ 200	88.6	92.0	92.9	94.3	95.6	95.7	96.3	97.2	97.3	98.3	98.6	98.8	99.4	99.5	99.7	99.8
≥ 100	88.6	92.0	93.0	94.4	95.7	95.8	96.4	97.3	97.4	98.5	98.8	99.0	99.6	99.7	99.9	100.0
≥ 0	88.6	92.0	93.0	94.4	95.7	95.8	96.4	97.3	97.4	98.5	98.8	99.0	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 927

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625

ELLSWORTH AFB SD

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING -FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	56.6	57.2	57.4	57.4	57.5	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7
≥ 7000	64.0	64.7	64.8	64.9	64.9	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.2	65.2
≥ 18000	64.5	65.2	65.3	65.4	65.4	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.7	65.7
≥ 16000	64.6	65.2	65.4	65.4	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7
≥ 14000	65.4	66.0	66.2	66.2	66.3	66.3	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000	67.7	68.4	68.6	68.6	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9
≥ 10000	71.2	71.9	72.0	72.1	72.2	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.5
≥ 9000	71.7	72.4	72.6	72.6	72.7	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0
≥ 8000	74.3	75.2	75.4	75.5	75.5	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8
≥ 7000	76.0	76.8	77.0	77.1	77.2	77.2	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.5
≥ 6000	77.5	78.4	78.5	78.7	78.8	78.8	78.8	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.1
≥ 5000	79.4	80.4	80.6	80.7	80.9	80.9	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.2
≥ 4500	79.6	80.6	80.8	81.0	81.1	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4
≥ 4000	81.4	82.5	82.7	82.9	83.0	83.1	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.4	83.4
≥ 3500	82.2	83.5	83.8	84.0	84.1	84.1	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.5
≥ 3000	83.2	84.7	85.1	85.3	85.5	85.5	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.9	85.9
≥ 2500	84.1	85.8	86.2	86.5	86.7	86.8	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.2	87.2
≥ 2000	85.0	87.1	87.5	88.1	88.3	88.3	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.9
≥ 1800	85.1	87.1	87.6	88.1	88.4	88.4	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9	89.0	89.0
≥ 1500	85.5	87.8	88.3	88.9	89.2	89.2	89.6	89.7	89.7	89.8	89.9	89.9	89.9	89.9	89.9	90.0
≥ 1200	85.9	88.3	88.9	89.5	89.9	89.9	90.3	90.5	90.5	90.7	90.7	90.7	90.8	90.8	90.8	90.9
≥ 1000	86.3	88.8	89.4	90.1	90.5	90.5	91.0	91.3	91.3	91.5	91.6	91.7	91.7	91.7	91.8	91.8
≥ 900	86.6	89.2	89.8	90.6	90.9	91.0	91.5	91.8	91.9	92.1	92.3	92.3	92.4	92.4	92.5	92.5
≥ 800	86.9	89.7	90.3	91.1	91.5	91.6	92.0	92.5	92.6	92.9	93.0	93.2	93.3	93.4	93.4	93.6
≥ 700	86.9	89.9	90.6	91.5	91.9	92.0	92.5	93.0	93.0	93.4	93.6	93.7	93.9	93.9	94.0	94.3
≥ 600	87.2	90.4	91.2	92.1	92.6	92.7	93.2	93.8	93.8	94.3	94.5	94.6	94.8	94.8	95.0	95.3
≥ 500	87.4	90.8	91.6	92.5	93.1	93.2	93.8	94.3	94.4	95.0	95.2	95.3	95.6	95.7	95.9	96.3
≥ 400	87.6	91.1	92.0	92.9	93.5	93.6	94.2	94.8	94.9	95.6	95.8	96.0	96.3	96.4	96.6	97.2
≥ 300	87.7	91.3	92.3	93.4	94.1	94.2	94.8	95.5	95.6	96.4	96.6	96.8	97.2	97.4	97.7	98.2
≥ 200	87.7	91.3	92.3	93.4	94.1	94.3	95.0	95.8	95.9	96.8	97.2	97.4	98.0	98.2	98.7	99.3
≥ 100	87.7	91.3	92.3	93.4	94.2	94.4	95.1	95.9	96.1	97.0	97.3	97.6	98.3	98.5	99.2	99.9
≥ 0	87.7	91.3	92.3	93.4	94.2	94.4	95.1	95.9	96.1	97.0	97.3	97.6	98.3	98.5	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7431

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

726625 ELLSWORTH AFB SD

73-82

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	60.7	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 20000	68.2	68.5	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000	68.4	68.8	68.8	68.9	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1
≥ 16000	68.5	68.9	68.9	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2
≥ 14000	69.2	69.6	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9
≥ 12000	71.2	71.6	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9
≥ 10000	75.2	75.6	75.7	75.8	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0
≥ 9000	75.7	76.2	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000	78.0	78.6	78.7	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0
≥ 7000	79.3	79.8	80.0	80.0	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3
≥ 6000	80.6	81.1	81.3	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6
≥ 5000	82.6	83.3	83.4	83.5	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8
≥ 4500	83.3	84.0	84.1	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5
≥ 4000	84.9	85.7	85.9	86.0	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4
≥ 3500	85.8	86.7	86.9	87.1	87.2	87.2	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.5
≥ 3000	87.0	88.1	88.3	88.5	88.7	88.7	88.8	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
≥ 2500	87.7	88.9	89.2	89.5	89.7	89.7	89.8	89.8	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0
≥ 2000	88.5	89.9	90.2	90.5	90.7	90.7	90.9	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.2	91.2
≥ 1800	88.6	90.0	90.4	90.7	90.9	90.9	91.0	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.4
≥ 1500	89.3	90.9	91.3	91.6	91.8	91.9	92.0	92.1	92.2	92.3	92.3	92.3	92.4	92.4	92.4	92.4
≥ 1200	89.8	91.5	92.0	92.3	92.6	92.7	92.9	93.0	93.0	93.1	93.2	93.2	93.3	93.3	93.3	93.3
≥ 1000	90.2	92.1	92.6	93.0	93.3	93.4	93.6	93.6	93.8	93.8	94.0	94.1	94.1	94.2	94.2	94.2
≥ 900	90.4	92.4	92.9	93.3	93.6	93.7	93.9	94.1	94.2	94.4	94.4	94.5	94.5	94.6	94.6	94.6
≥ 800	90.6	92.6	93.2	93.6	94.0	94.0	94.3	94.4	94.6	94.8	94.9	95.0	95.1	95.1	95.2	95.2
≥ 700	90.7	92.9	93.4	93.9	94.3	94.4	94.7	95.0	95.1	95.3	95.4	95.5	95.6	95.7	95.7	95.8
≥ 600	90.8	93.2	93.8	94.3	94.7	94.8	95.1	95.4	95.6	95.8	96.0	96.0	96.2	96.2	96.3	96.3
≥ 500	91.0	93.5	94.2	94.8	95.2	95.3	95.7	96.1	96.3	96.6	96.8	96.8	96.9	97.1	97.1	97.2
≥ 400	91.1	93.7	94.5	95.1	95.7	95.8	96.2	96.6	96.8	97.2	97.4	97.5	97.8	97.8	97.9	98.0
≥ 300	91.2	93.9	94.7	95.4	96.0	96.1	96.6	97.1	97.3	97.8	98.1	98.2	98.4	98.5	98.6	98.7
≥ 200	91.2	94.0	94.8	95.5	96.2	96.3	96.8	97.4	97.7	98.2	98.6	98.7	99.0	99.1	99.3	99.5
≥ 100	91.2	94.0	94.8	95.6	96.2	96.3	96.9	97.5	97.7	98.3	98.6	98.8	99.2	99.3	99.5	99.9
≥ 0	91.2	94.0	94.8	95.6	96.2	96.3	96.9	97.5	97.7	98.3	98.6	98.8	99.2	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 87626

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED, BROKEN,
OVERCAST, & OBSCURED WERE USED AS INPUT FOR THE TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

SKY COVER

JAN

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02	25.3			29.8						18.8	26.1	5.2	928
	03-05	22.0			31.3						19.2	27.6	5.4	929
	06-08	11.4			31.3						24.9	32.4	6.4	930
	09-11	8.4			28.1						26.2	37.3	6.9	930
	12-14	8.4			28.8						27.1	35.7	6.9	930
	15-17	6.2			33.4						25.8	34.5	6.8	930
	18-20	12.9			32.7						22.7	31.7	6.2	928
	21-23	20.1			31.5						18.5	29.8	5.6	929
TOTALS		14.3			30.9						22.9	31.9	6.2	7434

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

73-82

FEB

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	00-02	23.5			27.8						15.9	32.9	5.5	843
	03-05	22.7			27.8						16.0	33.4	5.6	844
	06-08	8.3			31.4						25.9	34.4	6.7	845
	09-11	5.8			28.0						31.6	34.6	7.1	845
	12-14	4.7			31.6						30.9	32.8	7.0	845
	15-17	3.9			34.2						27.4	34.5	6.9	846
	18-20	11.8			33.7						23.5	31.0	6.2	846
	21-23	19.3			31.4						18.0	31.3	5.7	844
TOTALS		12.5			30.7						23.7	33.1	6.3	6758

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

MAP

STATION

STATION NAME

RECORD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAR	00-02	23.9			28.0						14.5	33.7	5.5	930
	03-05	21.2			27.6						16.3	34.8	5.8	930
	06-08	8.8			30.1						25.8	35.2	6.7	929
	09-11	7.0			29.5						26.0	37.5	7.0	930
	12-14	3.7			30.4						31.3	34.6	7.2	930
	15-17	3.2			33.3						29.8	33.7	7.0	930
	18-20	8.1			34.8						21.9	35.2	6.5	930
	21-23	19.2			30.3						17.2	33.3	5.8	928
TOTALS		11.9			30.5						22.9	34.8	6.4	7437

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

1

APR

NOTES

!

1

FORM
JUL 64

FORM 0-9-5 (OL A)
JUN 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

MAY
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
MAY	00-02	19.5			30.1						19.8	30.6	5.7	929
	03-05	11.6			34.7						23.4	30.3	6.2	928
	06-08	8.3			31.8						28.9	31.0	6.7	928
	09-11	5.4			33.5						28.0	33.0	6.8	927
	12-14	2.9			30.8						34.7	31.6	7.2	929
	15-17	1.5			28.2						40.4	29.9	7.5	930
	18-20	3.3			33.2						31.0	32.5	7.0	930
	21-23	13.5			35.6						18.8	32.1	6.0	929
TOTALS		8.3			32.2						28.1	31.4	6.6	7430

2

SKY COVER

JUN
MONTH

1

1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82

PERIOD

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	00-02	28.6			35.6						19.1	16.7	4.5	930
	03-05	15.6			44.1						24.9	15.4	5.1	930
	06-08	11.5			48.4						26.9	13.2	5.2	930
	09-11	9.0			56.5						26.2	8.3	4.9	930
	12-14	5.1			54.8						30.2	9.9	5.4	930
	15-17	3.0			48.1						39.0	9.9	5.9	929
	18-20	5.4			46.9						35.2	12.6	5.8	930
	21-23	20.0			38.5						26.8	14.7	5.0	930
TOTALS		12.3			46.6						28.5	12.6	5.2	7439

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

4

AUG
MONT

2

1

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

726625
STATION

73-82

SEP
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	00-02	46.3			29.4						10.6	13.7	3.2	898
	03-05	39.6			31.1						16.1	13.2	3.7	900
	06-08	22.9			39.2						21.3	16.6	4.8	970
	09-11	21.0			42.3						21.9	14.6	4.7	903
	12-14	12.0			50.4						22.4	14.2	5.7	900
	15-17	11.3			48.1						29.7	10.9	5.2	970
	18-20	22.0			44.3						20.9	12.8	4.5	920
	21-23	41.0			30.7						13.9	14.4	3.6	900
TOTALS		27.1			39.4						19.6	13.6	4.3	7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

126625
STATION

ELLSWORTH AFB SD

73-82

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02	36.2			27.5						16.5	19.8	4.3	930
	03-05	36.0			28.3						16.2	19.5	4.3	930
	06-08	13.5			38.2						27.5	27.8	5.7	930
	09-11	12.9			36.8						28.5	21.9	5.9	930
	12-14	12.2			35.4						29.8	22.7	6.0	930
	15-17	11.5			36.0						31.1	21.4	6.0	930
	18-20	18.4			38.3						22.5	20.9	5.3	930
	21-23	30.8			30.1						18.4	20.8	4.6	930
TOTALS		21.4			33.8						23.8	21.0	5.3	7440

USAF 4 -

FORM
HM 44

FORM 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

7:5625
STATION

ELLSWORTH AFB SD

73-82

NOV

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	00-02	31.1			25.4						15.4	28.2	5.7	398
	03-05	30.2			27.2						17.6	25.0	4.9	897
	06-08	13.1			34.3						24.9	27.6	6.0	898
	09-11	9.8			32.8						26.6	30.9	6.5	900
	12-14	7.8			33.0						28.2	31.0	6.6	900
	15-17	7.3			30.8						30.0	31.9	6.8	900
	18-20	15.7			31.7						21.4	31.3	6.0	849
	21-23	23.3			28.9						18.0	29.8	5.5	900

USAFETAC

FORM
HM 44

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

DEC
MON

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	00-02	22.6			31.3						17.8	28.3	5.4	928
	03-05	23.5			31.4						18.8	26.4	5.3	928
	06-08	10.0			34.6						28.8	26.6	6.3	930
	09-11	4.6			30.5						35.1	29.8	7.0	930
	12-14	4.8			28.7						36.3	30.1	7.1	930
	15-17	5.8			30.8						33.6	29.8	6.9	929
	18-20	14.5			30.2						25.2	30.1	6.2	924
	21-23	20.1			27.1						22.0	30.8	5.9	924
TOTALS		13.2			30.6						27.2	29.0	6.3	7423

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

726625

ELLSWORTH AFB SD

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	14.3			30.9						22.9	31.9	6.2	7434
FEB		12.5			30.7						23.7	33.1	6.3	6758
MAR		11.9			30.5						22.9	34.6	6.4	7437
APR		10.5			29.3						24.0	36.2	6.6	7194
MAY		8.3			32.2						28.1	31.4	6.6	7430
JUN		11.4			43.3						28.5	16.8	5.6	7198
JUL		12.3			46.6						28.5	12.6	5.2	7439
AUG		14.9			45.6						27.1	12.4	5.1	7435
SEP		27.1			39.4						19.6	13.8	4.3	7198
OCT		21.4			33.8						23.8	21.0	5.3	7440
NOV		17.3			30.5						22.8	29.5	5.9	7192
DEC		13.2			30.6						27.2	29.0	6.3	7423
TOTALS		14.6			35.3						24.9	25.2	5.8	67578

USAFETAC

FORM
AN 44

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
726625 ELLSWORTH AFB SD
STATION

DAILY TEMPERATURES

39-45, 48-82

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
110							.1						.0
105						.2	.7	.2					.1
100						.8	3.5	3.0	.7				.7
95					.2	2.6	14.9	12.9	2.9				2.6
90					.9	8.6	34.6	31.9	11.0	.5			7.3
85				.6	5.6	21.2	57.0	52.4	22.8	2.9			13.7
80			.3	3.3	13.5	36.8	76.2	70.9	37.7	9.8			23.9
75			1.3	7.9	26.0	55.5	90.3	86.8	53.1	17.5	.3		28.4
70		.3	3.4	17.0	40.1	72.8	96.7	93.5	66.3	30.4	3.6	.7	35.7
65	.7	1.4	6.8	27.9	57.6	87.1	98.7	97.6	77.9	45.4	9.4	1.7	43.0
60	2.6	5.3	13.9	39.6	74.3	93.8	99.5	99.4	86.8	60.5	19.4	5.8	50.5
55	6.9	11.2	22.0	54.5	85.2	97.7	99.9	100.0	92.9	72.8	30.0	12.0	57.5
50	14.2	20.1	33.0	67.8	92.8	99.3	100.0		96.5	80.8	43.7	21.4	64.5
45	24.7	31.1	45.2	79.1	97.0	99.8			98.6	89.9	55.9	33.4	71.6
40	36.5	43.8	58.2	88.0	98.5	99.9			99.8	95.4	68.6	47.2	78.3
35	48.1	55.2	69.9	94.1	99.8	100.0			100.0	97.5	78.2	60.2	83.8
30	58.1	67.2	79.8	99.0	100.0					99.5	88.4	73.2	89.0
25	66.6	75.9	87.6	99.5						99.8	93.6	81.0	92.2
20	73.1	83.8	94.2	99.9						100.0	96.0	86.9	94.6
15	79.7	90.4	97.2	100.0							98.1	92.1	96.5
10	86.0	94.6	98.9								99.3	95.8	97.9
5	91.3	97.6	99.7								99.8	97.6	98.8
0	95.1	99.0	99.8								100.0	99.1	99.4
-5	98.3	99.8	100.0									99.4	99.8
-10	99.6	99.9										99.9	100.0
-15	100.0	100.0										100.0	100.0
MEAN	31.1	35.9	42.4	55.9	66.6	75.7	85.6	84.4	74.2	62.1	46.2	37.4	58.1
S D	17.398	15.409	14.833	13.181	11.446	10.273	8.502	9.028	12.489	13.085	14.031	14.875	22.711
TOTAL OBS.	1227	1157	1271	1259	1301	1237	1263	1271	1230	1271	1228	1271	14986

USAFETAC FORM 0-21-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
726625 ELLSWORTH AFB SD
STATION

DAILY TEMPERATURES

39-45, 48-82 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
80							.1						.0
75						.1	.5	.3	.1				.1
70						.9	7.6	4.4	.4				1.1
65					.2	4.6	27.8	20.7	3.2				4.8
60				.1	2.3	21.3	64.6	53.2	11.1	.3			12.9
55				.5	9.5	48.3	89.5	79.9	26.7	2.8	.1		21.6
50			.1	2.8	27.5	76.7	98.3	93.9	49.9	9.4	.2	.1	30.1
45		.2	.8	11.0	51.3	92.9	99.9	99.1	71.4	25.3	1.0	.4	38.1
40	.5	.9	3.5	27.2	77.3	98.2	100.0	100.0	87.7	47.8	6.1	1.9	46.3
35	3.0	5.3	11.3	48.8	91.3	99.7			95.9	68.3	19.3	5.4	54.5
33	5.6	7.8	17.7	58.9	94.1	99.8			97.5	76.5	26.8	9.4	58.3
30	10.7	13.9	29.8	73.3	97.6	100.0			99.2	85.8	39.3	16.8	64.3
25	21.1	28.0	49.2	89.3	99.2				99.9	95.3	60.0	32.6	73.3
20	33.9	43.2	66.4	95.8	100.0					98.6	76.4	48.2	82.6
15	45.6	57.0	77.3	98.7					100.0	99.8	86.1	63.3	85.9
10	56.1	69.7	85.5	99.6						100.0	92.9	75.1	90.1
5	65.9	80.4	92.1	100.0							95.8	84.7	93.4
0	74.3	88.0	95.4								98.4	92.0	95.8
-5	83.1	94.7	98.6								99.4	98.0	97.7
-10	91.5	97.9	99.4								99.8	98.1	98.9
-15	96.4	99.2	99.9								100.0	99.3	99.6
-20	99.2	99.8	100.0									99.8	99.9
-25	100.0	100.0										100.0	100.0
MEAN	11.0	15.8	22.4	34.3	44.8	54.1	61.3	59.5	49.3	38.7	25.7	17.6	36.2
S D	14.789	12.572	11.263	8.246	7.563	6.553	5.487	6.019	8.251	8.362	10.231	12.214	19.453
TOTAL OBS.	1229	1157	1271	1259	1301	1237	1263	1271	1230	1271	1228	1271	14988

USAFETAC FORM 7-64 0-21-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
726625 ELLSWORTH AFB SD

DAILY TEMPERATURES

39-45, 48-82

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
90							.3	.1					.0
85						.6	3.3	1.7	.3				.5
80					.2	2.4	18.6	14.2	2.4				3.2
75					.8	11.0	45.8	38.8	9.2				8.9
70				.4	5.7	28.9	74.0	65.0	23.3	2.0			16.7
65			.1	2.3	17.2	53.4	92.4	85.6	41.7	7.9	.1		25.2
60			.6	7.9	34.1	76.2	98.3	95.7	61.5	18.7	.4		33.0
55	.1	.3	2.8	18.3	55.6	91.3	99.7	99.4	77.5	35.4	3.3	.6	40.7
50	.9	2.2	7.0	33.5	77.6	97.7	100.0	100.0	89.4	56.4	12.3	2.9	48.7
45	4.0	6.8	16.4	53.2	90.9	99.4			95.2	73.4	25.1	8.6	56.5
40	11.6	16.0	31.2	71.8	96.7	99.8			98.5	85.7	41.5	18.5	64.7
35	21.8	28.7	47.0	85.1	98.5	100.0			99.9	93.9	57.6	32.3	72.5
30	34.7	43.6	62.8	94.5	99.8				100.0	98.0	72.1	49.0	79.9
25	48.3	56.1	74.9	98.3	100.0					99.4	86.2	62.7	85.7
20	58.3	70.2	85.1	99.4						99.9	92.4	75.4	90.2
15	65.9	79.3	90.6	99.8						100.0	95.6	83.2	93.0
10	74.9	87.6	95.8	100.0							97.8	91.2	95.7
5	82.5	94.1	98.2								99.1	95.0	97.5
0	88.0	96.5	99.3								99.8	96.9	98.4
-5	94.6	99.0	99.8								99.9	98.7	99.4
-10	98.1	99.6	100.0								100.0	99.5	99.8
-15	99.8	99.8										100.0	100.0
-20	100.0	100.0											100.0
MEAN	21.2	26.0	32.6	45.3	55.9	65.1	73.6	72.1	61.9	50.6	36.1	27.7	47.3
S. D.	15.571	13.354	12.399	9.880	8.734	7.834	6.368	6.873	9.638	10.038	11.446	13.007	20.717
TOTAL OBS.	1229	1157	1271	1259	1301	1237	1263	1271	1230	1271	1228	1271	14968

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

39-45, 48-82

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
39		58	76	87	97*	94	107	98	96	76*	70	74	
40	55	62	67	74*	93	98	104	98	96	81	64	62	104
41	63	62	66*	71	89	92	103	106	94	83	65	71	106
42	68	56	64	87	83	85	94	99	96	83	77	58	99
43	* 57	66	80	84	92*	71*	102	100	94	87	70	64	* 102
44	59	52	55	72	87	92	94	103	90	79	68	60	103
45	51	54	72	79	79	91							
48				84	94	88	100	102	102	83	62	66	
49	54	52	56	83	86	97	104	104	93	88	72	59	104
50	53	62	66	74	85	98	95	95	92	83	65	58	98
51	53	71	65	83	89	84	102	94	82	84	65	66	102
52	56	63	57	86	89	101	108	97	96	80	76	66	108
53	67	54	64	79	82	92	93	100	89	93	75	59	100
54	63	72	71	79	89	99	106	100	91	86	73	60	106
55	60	53	65	84	89	97	99	99	97	88	73	65	99
56	61	64	78	78	83	99	97	92	90	88	67	62	99
57	44	63	67	73	84	86	97	97	88	87	64	71	97
58	63	68	66	83	87	90	90	100	94	85	71	65	100
59	58	54	66	84	85	96	97	100	102	75	72	63	102
60	61	63	76	84	88	95	102	101	103	85	74	64	103
61	59	69	75	81	89	105	100	103	92	83	68	60	105
62	60	71	70	86	83	90	89	98	93	82	69	62	98
63	60	64	80	81	88	94	99	98	96	94	70	64	99
64	59	57	72	77	89	92	100	99	93	79	73	62	100
65	60	65	58	79	87	81	78	99	90	87	74	73	99
66	61	47	75	72	88	103	109	95	94	84	69	64	109
67	62	64	82	74	84	84	96	98	91	85	70	58	98
68	66	58	73	79	77	93	95	96	91	84	64	60	96
69	55	54	71	81	97	95	99	105	94	83	73	70	105
70	60	66	66	80	85	98	96	100	97	85	64	57	100
MEAN													
S. D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

(USAF ETAC FORM 0-88-3 (OLA)

1 (AT LEAST ONE DAY LESS THAN 24 OBS)

2

MAXIMUM TEMPERATURE

726625 ELLSWORTH AFB SD
STATION STATION

39-45, 48-82

YEARS

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

1 (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

726625 ELLSWORTH AFB SD

39-45, 48-82

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
39		-23	6	14	34*	40	55	44	32	27*	19	3	
40	-17	0	5	7*	34	43	56	47	37	30	-3	-7	-17
41	-5	1	4*	24	38	43	50	50	28	18	1	-9	-9
42	-20	-11	16	26	30	37	47	47	19	15	10	2	-20
43	* -23	0	-11	19	26*	37*	50	50	35	24	12	-2	* -23
44	-2	-16	-1	26	26	38	49	48	30	29	3	-6	-16
45	-12	-9	-9	13	23	40							
48				21	32	44	53	51	42	19	15	2	
49	-25	-11	-3	20	35	45	54	48	32	22	15	-2	-25
50	-24	-4	-14	13	21	42	45	48	32	28	0	-7	-24
51	-19	-11	-10	16	35	31	48	49	27	14	2	-15	-19
52	-16	1	-2	21	32	49	48	50	41	21	2	11	-16
53	-8	-2	5	19	23	44	53	51	36	27	17	4	-8
54	-15	11	-1	13	20	34	54	54	35	21	15	8	-15
55	-2	-6	-6	25	39	43	56	50	33	28	-7	-8	-8
56	-6	-10	-7	15	29	49	54	48	39	27	12	-8	-10
57	-23	-8	0	12	38	49	55	49	31	20	18	8	-23
58	15	-4	13	24	39	37	50	48	32	29	5	-8	-8
59	-15	-4	17	17	32	43	42	52	29	21	-14	9	-15
60	-6	-8	-11	25	34	45	55	48	36	18	7	-3	-11
61	-8	7	21	21	32	48	55	55	27	24	13	-8	-8
62	-14	-18	-18	21	35	41	50	44	32	21	19	-4	-18
63	-23	-10	12	25	26	50	52	50	38	22	9	-14	-23
64	-10	-8	0	16	35	38	54	41	32	26	-3	-22	-22
65	-4	-13	-10	19	33	45	53	46	28	31	14	-2	-13
66	-22	-12	3	6	29	41	56	44	37	25	2	1	-22
67	-2	-5	-1	19	24	42	47	49	28	22	7	-18	-18
68	-19	-3	5	10	27	45	47	44	36	20	12	-21	-21
69	-15	3	-1	24	35	33	51	54	42	15	12	3	-15
70	-14	8	6	19	33	43	52	53	33	18	4	-11	-14
MEAN													
S.D.													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-9 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

**D
2**

MINIMUM TEMPERATURE

726625 ELLSWORTH AFB SD
STATION STATION

39-45, 48-82

STATION

STATION NAME

YEARS

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-8 (OLA)

1. LAY LEAST ONE DAY LESS THAN 24 OBS.

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

724625 ELLSWORTH AFB SD

73-82

YEARS

JAN

MONTH

PAGE 1 0000-0200

HOURS (L. S. P.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
64/ 63									.2									2	2						
62/ 61									.1									1	1						
56/ 55									.2									2	2						
54/ 53							.1											1	1						
52/ 51						.2	.2											4	4						
50/ 49						.3	.2	.1										6	6	1					
48/ 47						.3	.2											5	5	2					
46/ 45				.2	.1	.1	.1											5	5						
44/ 43			.1	.3	.2	.8												13	13	2					
42/ 41				1.0		.3												12	12	3					
40/ 39			.8	1.3	.6	.1												26	26	12					
38/ 37		.1	.9	1.1	.4	.2												25	25	8					
36/ 35		.2	1.2	2.9	.1													41	41	25	2				
34/ 33		.6	1.5	2.0	.2													42	42	33	6				
32/ 31		.2	3.0	1.8	.2													49	49	40	10				
30/ 29	.3	.9	2.8	1.5														51	51	52	15				
28/ 27	.1	2.3	2.2	.4														46	46	63	26				
26/ 25		1.5	2.5	.2														39	39	60	31				
24/ 23	.1	1.4	1.3	.2														28	28	48	31				
22/ 21		1.3	1.6	.1														28	28	41	51				
20/ 19	.3	1.5	2.5	.2														42	42	24	68				
18/ 17		1.6	1.4															28	28	38	60				
16/ 15	.6	2.0	.9															33	33	41	46				
14/ 13		3.0	.4															32	32	32	37				
12/ 11		3.1	.6															35	35	33	23				
10/ 9		3.7	.3															37	37	40	36				
8/ 7	.1	2.2																21	21	46	43				
6/ 5	.1	2.4																23	23	18	33				
4/ 3		4.7																44	44	38	31				
2/ 1	.2	4.5																44	44	48	49				
0/ -1	1.3	2.4																34	34	30	22				
-2/ -3	.6	2.3																27	27	40	40				
-4/ -5	.6	1.6																21	21	20	34				
-6/ -7	1.8	1.2																28	28	27	36				
Element (X)	ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		ΣX		Mean No. of Hours with Temperature						
Rel. Hum.																			≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

669-052

2

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~~73-82~~

YEARS

JAN
MONT N

0000-0200

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

73-A2

YEARS

JAN
MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

PAGE 2 0300-0500
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point					
60/ 59								.2										2	2							
58/ 57								.1										1	1							
52/ 51						.3	.1											4	4							
50/ 49							.4											4	4							
48/ 47						.3	.4											7	7							
46/ 45					.4	.6	.1											11	11	3						
44/ 43					.3	.4	.1											8	8							
42/ 41				.1	1.5	.8												22	22	3						
40/ 39			.2	.6	1.1													18	18	2						
38/ 37		.4	.4	1.4	1.0	.1												31	31	11						
36/ 35		.1	1.1	1.7	.4													31	31	27						
34/ 33		.2	1.6	1.6	.2													34	34	35	1					
32/ 31		1.2	3.0	1.1	.1													50	50	36	3					
30/ 29	.1	.3	1.2	1.2														45	45	54	14					
28/ 27	.2	2.5	3.9	1.0														70	70	57	16					
26/ 25		1.2	3.2	1.0														50	50	66	36					
24/ 23		1.0	.9															17	17	64	25					
22/ 21		1.2	1.1	.1														22	22	64	48					
20/ 19	.1	2.7	1.7															42	42	20	82					
18/ 17	.1	1.8	.6															24	24	43	65					
16/ 15	.3	1.3	1.2															26	26	30	58					
14/ 13		1.8	.3															20	20	18	39					
12/ 11	.1	2.8	.9															35	35	31	28					
10/ 9		3.0	.5															33	33	23	40					
8/ 7		3.8	.1															36	36	46	41					
6/ 5		2.0	.2															21	21	41	12					
4/ 3	.2	3.8																37	37	33	13					
2/ 1	.2	4.5																44	44	33	44					
0/ -1	1.3	2.9																39	39	42	38					
-2/ -3	1.0	3.1																38	38	55	35					
-4/ -5	1.0	1.3																21	21	16	29					
-6/ -7	1.4	1.2																24	24	29	32					
-8/ -9	2.2	.1																21	21	25	33					
-10/-11	1.7																	16	16	17	38					
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ					
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										
Mean No. of Hours with Temperature																				≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total

FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN
MONTH

PAGE 2

0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

JAN

YEARS

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
66/ 65										.1								1	1		
64/ 63										.1								1	1		
62/ 61									.2	.1								3	3		
60/ 59																		2	2		
58/ 57							.1	.4	.1									6	6		
56/ 55							.5	.4	.1									10	10		
54/ 53						.1	.2	.4										7	7		
52/ 51						.3	.3	.3										9	9		
50/ 49					.1	.4	.8	.3										15	15	1	
48/ 47					.3	1.0	.9											20	20	2	
46/ 45				.6	1.4	.5												24	24	6	
44/ 43			.2	.2	1.4	1.0	.1											27	27	11	
42/ 41			.2	.5	1.1	.8												24	24	13	
40/ 39		.1	.1	1.4	1.1	.3	.1											29	29	22	
38/ 37		.1	.8	1.8	1.6													40	40	32	
36/ 35		.2	1.5	1.9	.4	.1												39	39	45	
34/ 33		.3	1.5	.9	.5	.1												31	31	47	
32/ 31		1.0	2.4	1.8	.1													49	49	51	
30/ 29		1.5	1.7	1.1														40	40	56	
28/ 27		1.6	1.9	.6														39	39	54	
26/ 25		1.0	1.7	.2	.1													28	28	46	
24/ 23		.3	.6	.1														10	10	39	
22/ 21		.8	1.6	.2														24	24	23	
20/ 19		1.7	2.2	.4														40	40	19	
18/ 17	.2	1.2	.6	.1														20	21	35	
16/ 15	.2	1.8	1.0															28	29	38	
14/ 13		3.5	.8															39	39	28	
12/ 11		2.4	.6															28	29	32	
10/ 9	.2	2.6	.3															29	29	36	
8/ 7		4.0	.3															40	40	30	
6/ 5		1.3	.1															13	13	38	
4/ 3		4.1																38	38	28	
2/ 1		5.5																51	51	42	
0/ .1	1.6	2.5																38	38	50	
Element (X)	Σx'		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

JAN

PAGE 2 0900-1100
HOURS (L, S, T.)

[illegible]

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
YEARS

JAN
MONTH

PAGE 1 1200-1400
HOURS (L, S, T, J)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point
68/ 67										.1								1	1		
66/ 65								.1		.2	.2							5	5		
64/ 63									.3	.2	.1							6	6		
62/ 61								.1	.2	.2								5	5		
60/ 59							.1	.6	.2	.2								11	11		
58/ 57							.2	.4	.2									8	8		
56/ 55							.2	1.0	.1	.1								13	13		
54/ 53						.1	.8	.2	.6									16	16		
52/ 51					.1	.6	.8	.6										20	20	1	
50/ 49					.5	.5	.8	.1										18	18	2	
48/ 47				.1	.4	1.7	1.2											32	32	10	
46/ 45			.2		1.4	1.7	.3											34	34	12	
44/ 43				.2	.8	.4	.4											17	17	14	
42/ 41			.2	.2	1.0	.8	.4											24	24	17	
40/ 39		.2	.4	.6	1.9	.3												33	33	27	1
38/ 37		.2	1.2	2.5	.4	.6												46	46	50	2
36/ 35		.2	.4	2.0	.9	.1												34	34	43	2
34/ 33		.6	1.1	1.8	.2													35	35	32	7
32/ 31		1.6	2.2	1.2	.1													47	47	62	27
30/ 29		1.0	1.2	1.2	.1													32	32	50	35
28/ 27		.3	2.0	.8														29	29	59	43
26/ 25		1.4	1.2	.8	.2													33	33	24	58
24/ 23		.1	1.6	.3														19	19	44	29
22/ 21		1.0	1.2	.2														22	22	24	59
20/ 19	.1	1.7	2.6	.3														44	44	32	79
18/ 17	.4	1.1	1.6															29	29	36	48
16/ 15		1.5	.9															22	22	32	48
14/ 13		3.0	.4															32	32	34	35
12/ 11		1.3	1.0															21	21	28	34
10/ 9		3.9	1.3															48	48	28	29
8/ 7		3.8	.1															36	36	45	37
6/ 5		1.5																14	14	38	34
4/ 3		3.9																36	36	29	23
2/ 1		5.1																87	87	36	33
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

669-052

2

726625
STATION

ELLSWORTH AFB SD

73-A2

JAN

PAGE 2 1200-1400
HOURS (L. S. T.)

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USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN
MONTH

PAGE 1

1500-1700
HOURS (L.S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

JAN
MONT

PAGE 2 1500-1700
HOURS . . . 3 . T . 1

[illegible]

569-052

USAFETAC FORM 0-26.3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B.-W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
62/ 61								.3										3	3					
60/ 59									.2									2	2					
56/ 55							.2	.3										5	5					
54/ 53							.2											2	2					
52/ 51						.3	.5											8	8					
50/ 49					.1	.4												5	5					
48/ 47					.3	.1												4	4	3				
46/ 45					.2	.2	.4											8	8					
44/ 43				.9	1.6	.2												25	25	7				
42/ 41			.1	.6	.4	.3												14	14	7				
40/ 39			.4	1.0	.6													19	19	8				
38/ 37		.1	1.3	2.0	.9	.1												41	41	20				
36/ 35		.1	1.1	2.7		.1												37	37	30				
34/ 33		.2	3.1	2.3	.6													58	58	29				
32/ 31		.3	3.4	2.0														54	55	51				
30/ 29		1.9	2.7	1.2														54	55	66				
28/ 27		1.7	2.3	.4	.1													42	42	66				
26/ 25		1.6	1.4	.8														35	35	68				
24/ 23		.5	1.4															18	18	42				
22/ 21		.5	.8															12	12	28				
20/ 19		1.8	2.3															38	38	20				
18/ 17	.3	2.7	1.2	.3														42	42	31				
16/ 15		2.2	1.1															30	30	48				
14/ 13		2.6	.4															28	28	27				
12/ 11	.1	3.6	.3															37	37	35				
10/ 9	.3	3.4	.2															37	37	42				
8/ 7		3.4	.1															33	33	40				
6/ 5		2.2																20	20	27				
4/ 3	.2	4.1																40	40	43				
2/ 1		5.7																53	53	42				
0/ -1	1.8	1.9																35	35	48				
-2/ -3	.2	2.6																26	26	27				
-4/ -5	.5	2.2																25	25	20				
-6/ -7	.6	1.0																15	15	21				
Element (X)	2x		2x		x		x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

JAN
MONTH

PAGE 2 1800-2000
HOURS (L. S. Y.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31		Dry Bulb	Wet Bulb	Dew Point
64/ 63									.1									1	1		
62/ 61								.2										2	2		
58/ 57								.1										1	1		
56/ 55								.1										1	1		
54/ 53							.4											4	4		
52/ 51						.2	.2											4	4		
50/ 49						.2	.2											4	4		
48/ 47						.4	.1											5	5	3	
46/ 45					.4	.2												6	6		
44/ 43				.3	.2	.4												9	9	2	
42/ 41			.2	1.0	.9	.2												21	21	6	
40/ 39			.5	1.5	.6													25	25	7	
38/ 37			.8	1.1	1.3													29	29	14	
36/ 35		.3	.5	2.0	.4													31	31	26	
34/ 33		.3	2.6	2.3	.3													51	51	32	4
32/ 31		.2	3.8	2.4														59	59	31	7
30/ 29	.1	1.8	2.8	1.1	.1													55	55	63	17
28/ 27		1.7	1.9	.4	.1													39	39	78	25
26/ 25	.1	1.2	2.3	.2														35	35	59	34
24/ 23	.1	1.3	1.8	.1														31	31	40	30
22/ 21		.9	1.3															20	20	46	72
20/ 19		2.6	2.6	.3														51	51	19	72
18/ 17	.3	1.5	.8	.1														25	25	49	59
16/ 15	.2	1.8	.9															27	27	32	35
14/ 13		2.8	.6															32	32	25	38
12/ 11		3.5	.6															39	39	35	33
10/ 9	.6	2.6																30	30	46	35
8/ 7		4.1	.1															39	39	35	37
6/ 5		2.0																19	19	33	41
4/ 3		4.3																40	40	36	38
2/ 1	.3	5.1																50	50	42	32
0/ -1	1.1	1.6																25	25	38	30
-2/ -3	.6	2.6																30	30	31	23
-4/ -5	.5	2.2																25	25	23	18
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature							Total			
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\approx 67 F$	$\approx 73 F$	$\approx 80 F$	$\approx 93 F$					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

JAN
MONTH

PAGE 2 2100-2300
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

PAGE 1

ALL
HOURS (L, S, T, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL.						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
68/ 67										.0								1	1									
66/ 65									.0	.1	.0							8	8									
64/ 63										.1	.0	.0						13	13									
62/ 61										.1	.1	.0						20	20									
60/ 59								.0	.2	.1	.0							22	22									
58/ 57								.0	.2	.1	.0							20	20									
56/ 55							.0	.1	.3	.0	.0							43	43									
54/ 53							.1	.3	.1	.1								47	47									
52/ 51					.0	.3	.4	.1										68	68	2								
50/ 49					.2	.3	.4	.1										70	70	4								
48/ 47				.0	.2	.6	.4	.0										97	97	28								
46/ 45			.0	.0	.6	.7	.3											121	121	29								
44/ 43			.1	.3	.7	.5	.1											133	133	52								
42/ 41			.1	.6	.8	.5	.1											158	158	93								
40/ 39		.0	.4	1.1	1.1	.2	.0											208	208	114	2							
38/ 37		.2	.8	1.6	.9	.2												274	274	175	2							
36/ 35		.2	1.0	2.2	.4	.1												281	282	265	11							
34/ 33		.5	1.8	1.9	.3	.0												345	345	294	34							
32/ 31		.8	2.9	1.7	.1													411	413	370	91							
30/ 29	.1	1.2	2.5	1.2	.1													375	376	451	167							
28/ 27	.0	1.5	2.2	.6	.0													329	329	497	252							
26/ 25	.0	1.4	2.0	.5	.0													298	298	426	359							
24/ 23	.0	.7	1.3	.1														157	157	362	254							
22/ 21		1.0	1.5	.1														196	196	277	454							
20/ 19	.1	1.9	2.2	.2														322	322	185	604							
18/ 17	.2	1.7	1.1	.1														226	227	306	426							
16/ 15	.2	1.8	.9															220	221	290	375							
14/ 13	.0	2.8	.6															251	251	223	280							
12/ 11	.1	2.8	.6															263	265	259	248							
10/ 9	.2	3.2	.4															279	279	295	260							
8/ 7	.0	3.6	.1															275	275	318	313							
6/ 5	.0	2.0	.0															156	156	263	240							
4/ 3	.1	4.1	.0															313	313	277	218							
2/ 1	.1	5.2																397	397	335	321							
Element (X)	Σ X				Σ X				Σ X				Σ X				Σ X				Σ X				Σ X			
Rel. Hum.																												
Dry Bulb																												
Wet Bulb																												
Dew Point																												

USAFETAC FORM 0-26-3, OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
0/-1	1.3	2.0																243	243	331	243
-2/-3	.4	2.5																220	220	275	266
-4/-5	.5	1.5																154	154	142	301
-6/-7	.9	.9																134	134	153	247
-8/-9	1.5	.1																125	125	176	262
-10/-11	1.1	.0																82	82	88	246
-12/-13	.5																	39	39	39	136
-14/-15	.4																	28	28	28	223
-16/-17	.1																	6	6	6	186
-18/-19	.0																	3	3	3	158
-20/-21	.0																	1	1	1	120
-22/-23																					57
-24/-25																					45
-26/-27																					18
-28/-29																					8
-32/-33																					4
-34/-35																					1
TOTAL	8.0	43.8	22.5	12.5	5.4	3.6	2.3	1.2	.5	.2	.1							7432	7440	7432	7442

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

PSYCHROMETRIC SUMMARY

FREE

PAGE 1 0000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

FEA
MONTH

PAGE 2 0000-0200
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
54/ 53						.1		.1										2	2									
52/ 51						.1		.4										4	4									
50/ 49					.1		.1											2	2									
48/ 47					.5		.1											5	5									
46/ 45				.1	.2	.5	.1											8	8									
44/ 43				.5	.5	.5	.5											11	11		2							
42/ 41				.4	1.1	.4	.1											16	16		1							
40/ 39			.1	1.3	2.2	.2												33	33		9							
38/ 37		.2	.7	2.5	1.1													38	38		5							
36/ 35	.1	.1	1.4	2.7	.4													40	40	25	2							
34/ 33		1.1	2.6	2.4	.2													53	53	33	1							
32/ 31	.4	1.2	3.7	2.1	.2													64	64	70	13							
30/ 29	.4	.6	3.8	1.9														56	56	67	17							
28/ 27	.6	2.0	2.5	.6														48	48	69	23							
26/ 25	.4	1.9	2.0	.7														42	42	75	34							
24/ 23	.4	1.8	1.1	.2														29	29	48	38							
22/ 21	.1	2.7	1.5	.1														38	38	50	75							
20/ 19	.7	3.2	.8	.4														43	43	42	72							
18/ 17		3.4	.5	.1														34	34	30	80							
16/ 15		2.6	.9															30	30	39	48							
14/ 13	.1	4.1	.5															40	40	29	40							
12/ 11		3.3	.2															30	30	44	53							
10/ 9	.1	1.8	.2															18	18	29	39							
8/ 7	.5	3.0	.1															30	30	32	46							
6/ 5		2.1	.1															19	19	22	21							
4/ 3	.5	1.7																18	18	23	41							
2/ 1	.1	2.7																24	24	12	30							
0/ -1	.6	.7																11	11	27	22							
-2/ -3	.4	.6																8	8	8	22							
-4/ -5	1.2	.7																16	16	14	17							
-6/ -7	.9	1.5																21	21	17	19							
-8/ -9	.4	.2																5	5	12	12							
-10/ -11	.7																	6	6	8	17							
-12/ -13	.1																	1	1	1	11							
Element (X)	Σ X'				Σ X				X̄				s _x				No. Obs.				Mean No. of Hours with Temperature							
Rel. Hum.																					≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb																												
Wet Bulb																												
Dew Point																												

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

669-052

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-A2

FEB

PAGE 2 0300-0500
HOURS 11. 3. (.)

[illegible]

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSMORTH AFB SD

STATION NAME

73-A2

YEARS

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MONTH

PAGE 2

0600-0800
HOURS (L S T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

FEB
MONTH

PAGE 1 0900-1100
HOURS (L, S, T, I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point						
66/ 65										.1								1	1								
64/ 63									.2									2	2								
62/ 61											.2							2	2								
60/ 59								.1			.1							2	2								
58/ 57							.1	.4	.4	.1								8	8								
56/ 55							.1	.4	.1	.2								7	7								
54/ 53					.1	.2	.8	.4	.1									14	14								
52/ 51						.1	.4	.5										8	8								
50/ 49					.4	1.1	2.0	.2										31	31								
48/ 47					.9	1.8	.4											26	26	3							
46/ 45				.1	1.2	1.8	.8	.1										34	34	4							
44/ 43				.7	2.1	1.1	.2											35	35	10							
42/ 41			.2	.7	1.5	1.8												36	36	20							
40/ 39		.1	.6	2.1	2.2	.5	.1											48	48	34							
38/ 37		.2	1.2	1.7	1.1	.4												38	38	60	1						
36/ 35			1.4	1.8	1.2	.2												39	39	46	2						
34/ 33		.6	1.2	2.4	.7	.1												42	42	68	7						
32/ 31		1.3	1.9	1.8	.7	.1												49	49	61	18						
30/ 29	.1	1.8	.9	1.4	.1													37	37	52	27						
28/ 27		.5	1.5	.6														22	22	62	43						
26/ 25		.9	1.4	.6	.2													27	27	31	64						
24/ 23	.1	1.2	.8	.1														19	19	41	58						
22/ 21	.4	1.7	.7	.4														26	26	36	71						
20/ 19	.2	2.7	.6	.4														33	33	27	64						
18/ 17	.1	3.7	1.3															43	43	29	55						
16/ 15		2.6	1.1															31	31	37	54						
14/ 13	.1	3.6	.4															34	34	38	43						
12/ 11		1.7	.1															15	15	34	46						
10/ 9		3.4	.2															31	31	23	28						
8/ 7		1.7	.1															15	15	26	37						
6/ 5		1.1	.1															10	10	16	18						
4/ 3		1.5	.1															14	14	10	33						
2/ 1	.2	1.8																17	17	18	37						
0/ -1	.9	.7																14	14	19	19						
Element (X)	Σ X'				Σ X				X̄				σ _x				No. Obs.				Mean No. of Hours with Temperature						
Rel. Hum.																					≤ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	Total
Dry Bulb																											
Wet Bulb																											
Dew Point																											

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

PSYCHROMETRIC SUMMARY

73-82

YEARS

FEB
MONTH

PAGE 2 0900-1100
HOURS U. S. T. 1

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

YEARS

FEB

PAGE 1

1200-1400
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
68/ 67										.2	.4							5	5						
66/ 65										.1								1	1						
64/ 63										.2	.2							4	4						
62/ 61										.6								5	5						
60/ 59									.4	.7	.4							12	12						
58/ 57									.7	1.1	.5							19	19						
56/ 55							.4	1.2	.7	.2								21	21						
54/ 53						.2	.7	1.3	.2									21	21						
52/ 51					.2	.8	1.2	1.1	.4									31	31						
50/ 49					.7	2.1	1.7		.2									40	40	5					
48/ 47				.1	1.1	.9	.9	.2										28	28	2					
46/ 45				.4	.8	1.3	1.4											33	33	10					
44/ 43			.2	.8	1.7	1.9	.4											42	42	25					
42/ 41			.4	.6	1.9	1.1	.2											35	35	49					
40/ 39			.7	2.0	1.2	1.5	.4											49	49	62					
38/ 37			.9	1.8	1.2	.7												39	39	47					
36/ 35		.1	.6	1.8	1.1													30	30	64	4				
34/ 33		.4	.8	1.3	.5	.1												26	26	62	10				
32/ 31		1.5	.9	2.1	.5													43	43	50	22				
30/ 29		.6	.8	.7	.7													24	24	62	45				
28/ 27	.2	1.1	2.7	.7	.4													43	43	35	38				
26/ 25	.1	1.1	1.2		.1													21	21	38	65				
24/ 23		.4	.5	.1														8	8	40	50				
22/ 21	.2	1.4	.9															22	22	28	81				
20/ 19	.2	3.8	1.4															46	46	31	63				
18/ 17		1.9	1.4															28	28	30	61				
16/ 15		2.1	1.2	.1														29	29	28	53				
14/ 13		2.0	.4															20	20	34	52				
12/ 11	.1	2.7	.1															25	25	22	41				
10/ 9		2.0	.2															19	19	31	30				
8/ 7		1.3	.1															12	12	14	31				
6/ 5		.9																8	8	19	32				
4/ 3		1.3																11	11	4	31				
2/ 1		2.5																21	21	14	33				
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Mean No. of Hours with Temperature						
Rel. Hum.																			≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

659 052

PSYCHROMETRIC SUMMARY

73-82

YEARS

FEB
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
0/-1	.4	.7																9	9	22	13		
-2/-3	.2	1.2																12	12	9	16		
-4/-5		.4																3	3	5	10		
-6/-7		.1																1	1	3	12		
-8/-9																				1	9		
-10/-11																					12		
-12/-13																					7		
-14/-15																					7		
-16/-17																					3		
-18/-19																					10		
-20/-21																					2		
-22/-23																					1		
-24/-25																					2		
-26/-27																					2		
-28/-29																					2		
-30/-31																					2		
-32/-33																					2		
TOTAL	1.5	29.4	15.6	12.5	11.9	10.8	7.2	4.8	3.3	2.2	.6							846	846	846	846		

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
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PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

FEB
MONT

PAGE 2 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
0/-1	.1	1.3																12	12	22	20		
-2/-3	.4	.5																7	7	10	10		
-4/-5		.8																7	7	5	16		
-6/-7		.2																2	2	5	7		
-8/-9																				2	12		
-10/-11																					9		
-12/-13																					7		
-14/-15																					9		
-16/-17																					6		
-18/-19																					6		
-20/-21																					3		
-22/-23																					1		
-26/-27																					1		
-28/-29																					1		
-30/-31																					1		
TOTAL	1.1	29.1	19.1	15.2	11.7	8.5	7.2	3.7	2.6	1.5	.2							844	846		844		
																		844		844			
				</																			

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73-82

FEB

6623	ELL SMITH AFB TX
STATION	STATION NAME

YEARS

MONTH

18001-20000

HOURS (L.S.I.)

569-052

U.S. AETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

2

11

FEB
MONTH

STATION

STATION NAME

YEARS

ELB
MONTH

1A00-2000

669-052

USAFETAC FORM JUN 71 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

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USAFETAC FORM 0-26-3 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
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PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

FEB
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PAGE 2

2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

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ALL

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

MAR

PAGE 1 0000-0200

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
62/ 61									.2									2	2		
60/ 59								.2										2	2		
58/ 57							.1	.1										2	2		
56/ 55							.1											1	1		
54/ 53						.1		.1										2	2		
52/ 51						.1	.5	.2										8	8		
50/ 49					.2	.9	.1											11	11		
48/ 47				.1	.2	1.0	.3											15	15		
46/ 45		.1		.3	.4	.4												12	12	6	
44/ 43			.2	.5	.5	.2												14	14	4	
42/ 41		.2	.5	1.1	.6	.5	.1											29	29	6	1
40/ 39		.4	1.0	1.3	1.2	.2	.1											39	39	24	1
38/ 37		1.2	2.2	1.4	1.1	.1												55	55	34	3
36/ 35		2.0	2.3	2.0	.8													66	66	48	4
34/ 33	.3	3.4	4.2	2.0	.9													101	101	64	25
32/ 31	.1	3.9	3.9	2.3	.4													98	98	82	34
30/ 29	.8	4.0	4.8	1.8														106	106	107	57
28/ 27	.8	3.1	4.3	.9														84	84	123	61
26/ 25	.1	2.0	3.3	.4														55	55	93	102
24/ 23	.3	1.9	1.2	.2														34	34	82	59
22/ 21	.3	3.2	1.0															42	42	66	76
20/ 19	.3	2.5	1.0															35	35	40	104
18/ 17	.1	1.7																17	17	22	77
16/ 15	.4	1.0																13	13	31	70
14/ 13	.4	1.7																20	20	8	70
12/ 11	.4	1.4																17	17	24	47
10/ 9	.2	1.0																11	11	12	32
8/ 7	.1	1.0																10	10	11	26
6/ 5		.4																4	4	8	14
4/ 3	.2	.8																9	9	11	20
2/ 1	.1	.4																5	5	5	13
0/ -1	.3	.1																4	4	4	5
-2/ -3	.4	.2																6	6	7	4
-4/ -5	.1																	1	1	1	10
Element (X)	Σ X ²		Σ X		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

669-052
FORM 0-26-3 (OLA PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

MAR
MONTH

PAGE 2

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
-6/-7																					6
-8/-9																					4
-10/-11																					2
-12/-13																					2
-14/-15																					1
TOTAL	5.9	37.7	29.8	14.4	6.3	3.5	1.4	.6	.2										930		930
																		930			

2

1

73-82

YEARS

MAR
MONTH

HOURS:		S	T
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

569-052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

~~726625~~ STATION ~~ELLSWORTH AFB SD~~ STATION

73-A2

MAR
MONTH

PAGE 2

0300-0500
HOURS (S, S, T, L)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

MAR
MONTH

0600-0000
HOURS U. S. T-1

[illegible]

PSYCHROMETRIC SUMMARY

726625 STATION ELLSWORTH AFB SD STATION NAME

73-A2

YEARS

MAR
MONTH

PAGE 2 ~~0600-0800~~
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-A2

YEARS

MAR
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point							
72/ 71											.1	.2						3	3									
70/ 69									.1	.1	.1							3	3									
68/ 67										.1	.2	.2						5	5									
66/ 65									.3	.1	.3							7	7									
64/ 63							.1	.1	.2	.2	.1							7	7									
62/ 61								.1	.3	.4								8	8									
60/ 59								.4	.5	.4								13	13									
58/ 57						.1	.1	.6	.5	.2								15	15									
56/ 55					.1	.1	.3	.9	.2	.1								16	16									
54/ 53					.2	.5	1.2	.8										25	25	3								
52/ 51					.4	.5	1.1	.3	.3									25	25	5								
50/ 49				.2	.4	1.1	.9	.5										29	29	5								
48/ 47				.4	1.0	1.3	1.2	.5										41	41	13								
46/ 45			.2	.6	.7	.5	1.1	.2										41	41	18								
44/ 43				1.6	1.9	1.5	.9											55	55	34								
42/ 41			1.1	2.7	1.5	1.9	.3											70	70	46	4							
40/ 39				1.5	3.2	1.8	1.0											70	70	44	2							
38/ 37		.8	1.3	3.4	1.7	.5												72	72	73	8							
36/ 35		1.6	2.2	2.4	.9	.1												66	66	99	9							
34/ 33		1.4	2.0	2.4	.2													56	56	102	26							
32/ 31	.2	2.5	2.9	1.7	.1													69	69	102	67							
30/ 29	.2	.8	1.5	.2														25	25	85	76							
28/ 27	.2	1.9	.9	.2	.1													31	31	71	65							
26/ 25	.1	1.1	1.5															25	25	43	110							
24/ 23		1.3	.5															17	17	23	67							
22/ 21		.9	.1															9	9	28	76							
20/ 19	.2	2.8	1.1															38	38	16	90							
18/ 17		1.6	.1															16	16	30	63							
16/ 15	.4	1.3	.3															19	19	25	71							
14/ 13	.1	.8	.2															10	10	12	50							
12/ 11		.3	.3															6	6	7	32							
10/ 9		1.1	.1															11	11	10	27							
8/ 7		1.0																9	9	10	28							
6/ 5		.8																7	7	12	7							
Element (X)	Σ X ²			Σ X			X			Σ X			No. Obs.			Mean No. of Hours with Temperature												
Rel. Hum.																≤ 0 F		≤ 32 F		≤ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																												
Wet Bulb																												
Dew Point																												

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-A2

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MENTH

PAGE 2 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-A2

MAR

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B.-W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point							
80/ 79													.1					1	1								
78/ 77													.1	.1				1	1								
76/ 75													.1	.1				2	2								
74/ 73												.1	.4					5	5								
72/ 71													.2					2	2								
70/ 69										.1		.5	.1					7	7								
68/ 67											.2	.2	.2					6	6								
66/ 65											.1	.8	.3					11	11								
64/ 63									.1	.8	.6	.9						22	22								
62/ 61							.1	.4	.8	.5	.5							22	22								
60/ 59						.3	.3	.3	1.2	.5								25	25								
58/ 57					.1	.1	.8	1.0	.6	.5								29	29								
56/ 55						.4	.9	1.0	.5									26	26	3							
54/ 53					.2	.8	1.5	1.2	.8									41	41	4							
52/ 51					.5	1.0	.8	1.5										35	35	10							
50/ 49					1.9	.6	1.1	1.3	.4									50	50	14							
48/ 47			.2	.5	1.6	1.4	.9	1.0	.1									53	53	28							
46/ 45				1.0	1.6	1.6	1.7	.2	.1									58	58	36							
44/ 43				1.7	2.2	1.5	.9											58	58	59							
42/ 41			.8	1.0	2.0	1.7	.3											54	54	74	3						
40/ 39		.1	1.6	1.6	2.5	1.0												63	63	65	4						
38/ 37		.8	1.7	2.5	.9	.1												55	55	80	6						
36/ 35		.9	1.1	1.9	.6													42	42	100	19						
34/ 33		1.7	1.3	.6	.1													35	35	84	51						
32/ 31		1.0	1.4	1.4	.1													36	36	100	92						
30/ 29		1.0	1.3	.2														23	23	51	65						
28/ 27	.1	.9	.9	.3														20	20	33	60						
26/ 25		1.2	.8	.3														21	21	33	88						
24/ 23		1.3	.1	.1														14	14	25	60						
22/ 21		2.6	.6	.1														31	31	21	79						
20/ 19	.2	1.9		.2														22	22	27	72						
18/ 17		1.4	.1	.1														15	15	25	92						
16/ 15		.9	.2															10	10	15	66						
14/ 13	.1	.6	.2															9	9	6	50						
Element (X)	Σ X'		Σ X			X		Σ X		No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.																					≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																											
Wet Bulb																											
Dew Point																											

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

MAR
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point	
12/ 11	.1	.4	.1															6	6	12	34	
10/ 9		.9																8	8	6	26	
8/ 7		.9																8	8	12	18	
6/ 5		.2																2	2	4	7	
4/ 3		.2																2	2	3	5	
2/ 1																					7	
0/ -1																					11	
-2/ -3																					8	
-4/ -5																					4	
-6/ -7																					3	
TOTAL	.5	18.7	12.4	13.7	14.4	10.5	9.1	8.0	5.5	3.2	2.6	1.2	.2					930	930	930	930	

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MAR
MONTH

110

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

USAFETAC

PSYCHROMETRIC SUMMARY

MAR
MONTA

PAGE 2 ~~1500-1700~~
HOURS () () ()

[illegible]

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73-A2

MAR
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

669-052

USAFETAC FORM Q-26-3 OL A: PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 77

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73-82

YEARS

MAR
MONTH

1000-2000

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

MAR
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.R.-W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
60/ 59								.1										1	1																
58/ 57							.1	.1										2	2																
56/ 55							.5											5	5																
54/ 53						.1	.1	.1										3	3																
52/ 51				.1	.3	.1	.2	.1										8	8																
50/ 49			.1	.2	.9	.3	.1											15	15																
48/ 47			.1	.1	1.0	1.1	.4											25	25																
46/ 45				.4	1.2	.4	.3											22	22	5															
44/ 43		.2	.3	.5	.9	.8	.4											29	29	11															
42/ 41		.4	.3	1.5	1.5	1.3												47	47	10															
40/ 39		.3	2.0	2.2	1.1	.6												58	58	38															
38/ 37		1.2	2.4	2.6	.9	.1												66	66	37															
36/ 35		3.4	2.8	3.0	.9	.1												95	95	67															
34/ 33	.3	1.6	3.9	2.6	.5													83	83	109															
32/ 31	.1	3.5	4.6	2.8	.8													110	110	82															
30/ 29	.6	2.3	4.1	2.0	.3													87	87	118															
28/ 27	.2	2.2	2.5	.4														49	49	108															
26/ 25	.4	1.7	1.7															36	36	86															
24/ 23	.3	1.5	1.2	.1														29	29	66															
22/ 21	.1	1.6	.5															21	21	35															
20/ 19	.8	1.8	.4															28	28	25															
18/ 17	.4	1.7	.5															25	25	23															
16/ 15	.1	1.7	.3															20	20	25															
14/ 13	.2	2.7																27	27	23															
12/ 11	.1	.8																8	8	27															
10/ 9	.1	.6																7	7	8															
8/ 7	.1	.2																3	3	5															
6/ 5		.1																1	1	1															
4/ 3		1.3																12	12	8															
2/ 1		.4																4	4	7															
0/ -1	.3	.1																4	4	5															
-2/ -3																				1															
-4/ -5																				7															
-6/ -7																				8															
Element (X)	ΣX ²			ΣX			Σ		Σ ₂		No. Obs.		Mean No. of Hours with Temperature																						
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY:

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

MAR
MONTH

PAGE 2 2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~

73-82

MAR
MONTH

PAGE 1

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
80/ 79													.0	.0				3	3																	
78/ 77												.0	.0					4	4																	
76/ 75												.0	.0					3	3																	
74/ 73											.0	.1						6	6																	
72/ 71											.0	.1						5	5																	
70/ 69									.0	.0	.1	.0						14	14																	
68/ 67									.0	.1	.1	.1						18	18																	
66/ 65								.1	.1	.2	.1	.0						36	36																	
64/ 63							.0	.0	.3	.2	.2	.0						54	54																	
62/ 61						.0	.0	.1	.4	.2	.1							65	65																	
60/ 59						.1	.1	.3	.3	.3								81	81																	
58/ 57					.0	.0	.2	.3	.3	.2	.0							81	81																	
56/ 55					.0	.2	.4	.5	.3	.0								103	103	6																
54/ 53					.1	.4	.6	.5	.2									135	135	11																
52/ 51				.0	.2	.5	.7	.5	.1									147	147	24																
50/ 49			.0	.1	.6	.9	.7	.5	.1									207	207	33																
48/ 47			.1	.3	.8	1.1	.8	.3	.1									249	249	83																
46/ 45		.0	.1	.7	1.0	.8	.7	.1	.0									262	262	127																
44/ 43		.0	.2	1.0	1.1	.9	.5	.0										284	284	182																
42/ 41		.1	.5	1.3	1.3	1.2	.2											345	345	266	14															
40/ 39	.0	.2	1.5	1.8	1.5	.6	.0											423	423	345	24															
38/ 37	.0	1.1	1.9	2.4	1.2	.3												514	514	402	36															
36/ 35		1.8	2.2	2.3	.9	.1												535	535	607	88															
34/ 33	.1	1.9	3.0	2.0	.5	.0												563	563	671	229															
32/ 31	.2	2.8	3.4	2.0	.3													643	643	735	486															
30/ 29	.4	2.3	2.7	1.0	.0													477	477	745	519															
28/ 27	.4	2.2	2.2	.4	.0													390	390	703	518															
26/ 25	.2	1.7	1.8	.2														282	282	515	702															
24/ 23	.1	1.6	1.0	.1														213	213	400	484															
22/ 21	.2	2.1	.7	.1														225	225	308	608															
20/ 19	.5	2.7	.6	.0														281	281	266	771															
18/ 17	.1	1.9	.2	.0														163	163	215	602															
16/ 15	.2	1.3	.2															124	124	208	571															
14/ 13	.2	1.3	.1															123	123	97	458															
Element (X)	Z _X ¹			Z _X			X		e _x		No. Obs.		Mean No. of Hours with Temperature																							
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																	
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

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STATION

STATION NAME

YEARS

MONTH

ALL

HOURS 11:55 T.V.

USAFETAC FORM 0-26-3.01A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 STATION ELLSWORTH AFB SD STATION

73-82

APR.
MONTH

PAGE 1 0000-0200
HOURS 12.3.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
64/ 63				.1			.2											3	3															
62/ 61			.1			.1		.2										4	4															
60/ 59					.2	.2	.2											8	8															
58/ 57			.1	.1	.1	.2	.1	.4	.1									11	11	2														
56/ 55		.2	.1	.1	.6	.3	.6		.1									18	18	1														
54/ 53	.1	.2	.2	.3	.9	.8	.6	.1										29	29	5														
52/ 51		.3	.7	.4	.9	.3	.4											28	28	8														
50/ 49		.4	1.2	.7	1.1	.3	.4											38	38	11														
48/ 47		.3	1.9	.9	1.6	1.0	.4											55	55	31														
46/ 45		1.2	.7	1.0	1.3	1.0												47	47	31														
44/ 43	.3	1.9	1.2	2.4	1.7	.3												71	71	66														
42/ 41		2.0	2.9	2.7	1.3	.7												86	86	47														
40/ 39	.2	1.2	3.6	2.4	1.3	.1												80	80	80														
38/ 37	.7	2.4	3.7	2.4	.9	.1												92	93	87														
36/ 35	.1	2.4	2.4	1.8	.4													65	65	110														
34/ 33	.3	2.7	3.4	2.4	.3													83	83	96														
32/ 31	.6	3.0	3.0	1.2														70	70	82														
30/ 29	.1	2.4	1.9	.1														41	41	86														
28/ 27	.1	.8	.4															12	12	63														
26/ 25		.9	.2															10	10	31														
24/ 23		.9																8	8	17														
22/ 21		1.6	.4															18	18	13														
20/ 19		1.3	.2															14	14	14														
18/ 17		.1																1	1	8														
16/ 15		.1																1	1	3														
14/ 13		.2																2	2	3														
12/ 11	.1																	1	1	1														
10/ 9	.1	.1																2	2	2														
8/ 7	.1																	1	1	1														
6/ 5																																		
TOTAL	2.9	26.9	28.5	19.2	12.7	5.6	3.0	1.0	.2									399	900	899														
Element (X)	Σ x ²			Σ x			\bar{x}	s_x	No. Obs.		Mean No. of Hours with Temperature						Total																	
Rel Hum.	4271868			60254			67.0	16.123	899		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total											
Dry Bulb	1474065			15537			39.5	8.879	900				18.1										90											
Wet Bulb	1154059			31501			35.0	7.481	899				32.4										90											
Dew Point	802347			25717			28.6	8.543	899				62.8										90											

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

APR

PAGE 1 0300-0500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-16	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
60/ 59			.1					.1										2	2					
58/ 57				.1		.3	.1	.1										6	6					
56/ 55			.3	.4	.4	.4	.2	.1										18	18	1				
54/ 53		.1	.1	.3	.4	.2	.1											12	12		1			
52/ 51		.3	.7	.6	.6	.3	.3											25	25	5				
50/ 49		.4	.7	.4	.8	1.0	.4											34	34	9	4			
48/ 47		1.0	.6	1.6	1.0	.7	.1											44	44	21	3			
46/ 45		1.2	2.0	1.2	.8	.6												52	52	32	18			
44/ 43	.2	1.7	1.4	1.6	1.4	.7												63	63	36	16			
42/ 41	.4	1.7	3.1	1.8	1.4	.2												78	78	71	30			
40/ 39	.1	1.1	2.9	2.3	1.0	.1												68	68	56	29			
38/ 37	.3	2.6	4.2	2.0	.3													85	85	74	38			
36/ 35	.6	4.2	3.9	2.4	.7													106	106	112	47			
34/ 33	.6	3.3	3.4	2.0	.4													88	88	102	69			
32/ 31	.3	2.7	4.3	1.8														82	82	100	101			
30/ 29	.3	1.3	1.9	.3														35	35	82	80			
28/ 27	.6	1.3	.8															24	24	78	70			
26/ 25		1.0	1.1															19	19	36	85			
24/ 23		1.6	.6															19	19	25	68			
22/ 21		1.2	.2															13	13	25	59			
20/ 19	.2	1.3	.1															15	15	13	56			
18/ 17		.6																5	5	10	39			
16/ 15		.2																2	2	5	34			
14/ 13		.2																2	2	4	28			
12/ 11																					10			
10/ 9																					8			
8/ 7	.1																	1	1	1	4			
6/ 5	.1	.1																2	2	1	1			
4/ 3																				1				
2/ 1																					1			
-2/ -3																					1			
TOTAL	3.9	29.2	32.4	18.9	9.3	4.6	1.3	.3										900	900	900	900			
Element (X)	Σx^2			Σx		\bar{x}		s^2		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	4474564			62026		68.9		14.9		900		$\leq 0 F$		$\leq 32 F$		$\leq 67 F$		$\leq 73 F$		$\leq 80 F$		$\leq 93 F$		Total
Dry Bulb	1348972			34010		37.8		8.4		900				21.9										90
Wet Bulb	1079283			30461		33.8		7.3		900				38.1										90
Dew Point	763472			25084		27.9		8.4		900		.1		68.5										90

FORM 0-26-3 (CL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

APR
MONTH

PAGE 1

0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. - W.B.	Dry Bulb	Wet Bulb	Dew Point			
72/ 71											.1							1	1					
68/ 67									.1									1	1					
66/ 65						.1	.1	.1	.1									4	4					
64/ 63						.2	.1	.1	.1									5	5					
62/ 61					.1	.3												4	4					
60/ 59				.1	.4	.4	.4	.3	.2									18	18					
58/ 57			.1	.4	.3	1.1		.1										19	19					
56/ 55			.2	.4	.8	1.1	.3											26	26	1				
54/ 53		.3		.8	.6	1.0	.7											30	30	8				
52/ 51			.4	.9	1.0	.6	.6											31	31	20	2			
50/ 49		.3	1.1	1.2	1.2	1.4	.7											54	54	15	4			
48/ 47		.9	1.7	1.2	1.7	1.1												59	59	35	8			
46/ 45		.9	1.2	2.4	1.9		.2											68	68	50	17			
44/ 43	.2	.7	1.4	2.4	1.4	.8												63	63	63	28			
42/ 41		1.2	3.6	2.2	1.3	.7												81	81	63	31			
40/ 39	.2	1.8	3.0	2.3	1.1	.2												78	78	81	33			
38/ 37	.3	1.9	4.0	2.2	.6													81	81	108	50			
36/ 35	.2	2.3	1.8	2.1	.2													60	60	92	71			
34/ 33	.7	3.6	2.4	.6	.2													67	67	91	77			
32/ 31		2.7	2.0	.8														49	49	80	105			
30/ 29	.1	1.6	.9	.1														24	24	65	105			
28/ 27	.1	1.1	.7															17	17	41	66			
26/ 25		1.6	.8															21	21	23	76			
24/ 23		.4	.2															6	6	22	41			
22/ 21	.2	1.2	.1															14	14	17	49			
20/ 19	.1	1.0																10	10	10	58			
18/ 17		.3																3	3	8	18			
16/ 15		.1																1	1	1	25			
14/ 13		.2																2	2	3	20			
12/ 11																					7			
10/ 9	.1																	1	1	1	6			
8/ 7		.1																1	1		1			
6/ 5		.1																1	1	2				
0/ -1																					2			
Element (X)	Z _X ¹			Z _X			X		e _X		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

APP
MONT

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-A2

APR
MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
14/ 13		.1																1	1	4	9	
12/ 11																					10	
10/ 9																					5	
8/ 7																					1	
6/ 5																					1	
TOTAL	.9	14.1	13.4	14.9	10.7	11.8	14.7	8.3	5.9	2.2	1.8	.7	.2	.1	.3			900	900	900	900	
																		900		900		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		Dry Bulb	Wet Bulb	Dew Point
86/ 85															.1	.3	4	4		
84/ 83															.2		2	2		
82/ 81												.1	.1		.3		5	5		
80/ 79											.2	.3	.4				9	9		
78/ 77										.1	.6	.3	.1				10	10		
76/ 75										.3	.2	.7	.7	.1			18	18		
74/ 73								.2	.3	.1	.2	.7	.6	.3			22	22		
72/ 71							.2	.1	.1	.2	.6	.2	.1				14	14		
70/ 69						.2	.2	.2	1.3	.6	.3	.2					28	28		
68/ 67					.1	.1		.8	.4	1.1	1.1	.1					34	34		
66/ 65							.6	.6	1.1	1.1	.3						33	33		
64/ 63			.1			.4	.6	1.7	1.6	1.0	.1						49	49		
62/ 61						.9	.4	2.0	1.3	.4	.1						47	47	1	
60/ 59		.1		.1	.4	.7	.7	2.4	1.2	.2	.1						54	54	12	
58/ 57			.1	.3	.7	1.0	.6	1.4	1.1	.1							48	48	26	3
56/ 55					.3	1.1	1.0	.9	.9	.2							40	40	13	
54/ 53			.3	.2	1.4	1.6	.3	1.3	.3								50	50	41	
52/ 51		.2	.2	.8	1.2	.7	1.3	1.4									53	53	70	2
50/ 49		.3	.2	.4	1.7	1.0	1.3	.4									49	49	67	8
48/ 47		.6	.6	1.1	1.2	.8	1.4	.2									53	53	92	11
46/ 45		.2	.9	1.6	1.2	.6	.7										46	46	80	27
44/ 43		.6	.8	2.8	1.4	.2											52	52	68	26
42/ 41	.1	.6	1.2	1.1	.7	.3											36	36	72	34
40/ 39		.7	.9	1.0	.4	.3											30	30	92	41
38/ 37		.7	.3	.9	.1												18	18	78	50
36/ 35	.2	1.1	.3	.1													16	16	57	74
34/ 33	.1	.7	.4	.6	.2												18	18	39	101
32/ 31	.2	.6	.9	.9													23	23	20	110
30/ 29		.1	.7	.2													9	9	14	66
28/ 27		.9	.7	.1													15	15	15	62
26/ 25		.2	.2														4	4	25	57
24/ 23		.4															4	4	9	33
22/ 21																			2	63
20/ 19	.2																2	2		54
Element (X)	ΣX^2				ΣX				\bar{X}				σ_x				No. Obs.			
Rel. Hum.																	Mean No. of Hours with Temperature			
Dry Bulb																	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$
Wet Bulb																	$\leq 80 F$	$\leq 93 F$		Total
Dew Point																				

FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

APP

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-A2

YEARS

APR
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-A2.

APR
MONTH

PAGE 2 1500-1700
HOURS [L. S. T.]

[illegible]

2

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73-A2

YEARS

APR
MONTH

1800-2000
HOURS (L.S.T.)

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

73-82

APR
MONTH

PAGE 2

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
10/ 9 8/ 7																					5 2	
TOTAL	.9	13.2	17.9	13.7	12.7	11.8	11.8	8.0	4.8	2.7	1.4	.9	.1	.1				899	899	899	899	
																		</				

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

APR

PAGE 1 2100-2300
HOURS 'L, S, T, I

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27	28	29-30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Pt.			
70/ 69							.1	.1													2	2				
68/ 67								.1	.1	.1											3	3				
66/ 65					.2																2	2				
64/ 63							.1	.1	.1												1	3				
62/ 61					.1	.4	.1	.2	.3												1	1				
60/ 59				.3	.1	.1	.4	.3	.3												5	15				
58/ 57		.2	.3	.3		.6	.6	.2													20	20	4			
56/ 55		.1	.3	.2	.8	1.0	1.1	.4	.3												12	19	4			
54/ 53			.3	.2	.6	1.6	.9	.3													35	35	10			
52/ 51		.1	.6	.8	1.3	1.4	1.1	.3													51	51	12			
50/ 49		.4	1.7	.8	1.1	1.2	.8														54	54	13			
48/ 47		.6	1.4	1.0	1.9	1.6	.3														61	61	42			
46/ 45	.3	1.4	.9	1.2	1.8	1.8	.3														70	70	62			
44/ 43		1.9	1.8	2.0	1.4	.4															68	68	69			
42/ 41		1.4	3.1	1.7	1.2	.8															74	74	70			
40/ 39	.1	1.4	4.9	1.8	1.4	.2															89	89	95			
38/ 37	.2	1.4	2.7	1.8	.8	.1															63	63	97			
36/ 35	.2	1.6	2.4	1.8	.3																57	57	115			
34/ 33	.6	2.9	1.2	.9	.1																51	51	61			
32/ 31	.6	2.6	2.6	1.0																	60	60	86			
30/ 29	.2	1.1	1.3																		24	24	51			
28/ 27		.2	.2	.1																	5	5	50			
26/ 25		1.0	.3	.2																	14	14	16			
24/ 23		.6	.7																		11	11	10			
22/ 21		.4	.1																		5	5	16			
20/ 19	.2	.8																			9	9	7			
18/ 17																							6			
16/ 15		.1																			1	1	1			
14/ 13	.2																				2	2	2			
12/ 11	.1																				1	1	1			
10/ 9																										
8/ 7																										
TOTAL	2.8	20.3	26.9	16.1	13.2	11.2	5.9	2.2	1.2	.1											900	900	900			
Element (X)	Σ X ²		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature							Total								
Rel. Hum.	3898113		57119		63.5		17.4		900		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb	1695345		18145		42.4		9.3		900		13.2							90								
Wet Bulb	1283341		13323		17.0		7.4		900		24.4							90								
Dew Point	861750		26798		29.8		8.4		900		57.4							90								

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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73-A2

APR

726625
STATION

STATION NAME

YEARS

MONTH

PAGE 1

All

HOURS 11:30 A.M. - 7:00 P.M.

250-699569-052

USAFETAC 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
FORM JUN 71

USAFETAC

PSYCHROMETRIC SUMMARY

73-A2

APR
MONTA

PAGE 2

ALL
U.S. L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
18/ 17	.0	.3																19	19	41	287
16/ 15		.2																11	11	22	166
14/ 13	.0	.1																10	10	17	117
12/ 11	.0																	3	3	3	63
10/ 9	.0	.0																3	3	3	45
8/ 7	.0	.0																3	3	2	16
6/ 5	.0	.0																3	3	3	4
4/ 3																				1	
2/ 1																					1
0/ -1																					2
-2/ -3																					1
TOTAL	1.9	18.1	20.5	15.7	11.6	9.3	7.2	5.8	4.0	2.2	1.6	1.1	.6	.1	.2	.1		7197	7198	7197	7197

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

MAY
MONTH

PAGE 1 0000-0200
HOURS (L, S, T, I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
70/ 69					.1	.1			.1									3	3		
68/ 67					.4	.1	.1	.2										8	8		
66/ 65				.4	.2	.1	.1	.2										10	10		
64/ 63				.1	1.0	.3	.3											16	16		
62/ 61		.1	.2	.3	.9	.6	.3											23	23	3	
60/ 59		.1	.3	1.5	1.4	.5	1.2											47	47	8	1
58/ 57		.5	1.3	1.1	1.1	.8	.4											48	48	9	1
56/ 55		.9	1.3	1.2	1.2	.9	.3	.1										54	54	33	15
54/ 53		1.3	.5	2.0	1.2	1.2	.5											63	63	52	12
52/ 51	.1	2.3	2.4	2.6	1.5	.2	.4											88	88	63	36
50/ 49	.1	3.0	4.1	1.7	1.1	.4												97	97	56	49
48/ 47	.3	4.0	4.1	2.7	1.0	.6												118	118	116	51
46/ 45	.1	2.3	2.0	2.7	1.9	.3												87	87	117	85
44/ 43		2.2	2.7	3.1	.3	.1												78	78	97	82
42/ 41		1.4	2.8	1.7	.6		.1											62	62	81	66
40/ 39	.1	1.4	2.6	1.3	.3	.1												54	54	84	99
38/ 37	.1	.6	1.2	.6	.2													26	26	80	70
36/ 35	.1	.2	1.2	.8	.5													26	26	46	81
34/ 33		.3	.1	.3														7	7	32	64
32/ 31		.5	.3	.2														10	10	21	56
30/ 29		.1	.2															3	3	16	43
28/ 27		.2																2	2	12	41
26/ 25																				4	23
24/ 23																					14
22/ 21																					18
20/ 19																					11
18/ 17																					3
16/ 15																					4
14/ 13																					4
12/ 11																					1
TOTAL	1.0	21.4	27.3	24.4	14.9	6.5	3.9	.5	.1									930	930	930	
																		930		930	
Element (X)	Σ X ²		Σ X		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature							Total			
Rel. Hum.	4678533		64481		69.31		14.955		930		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93				
Dry Bulb	2264454		45344		48.8		7.597		930			1.5	1.1				93				
Wet Bulb	1834720		40812		43.9		6.861		930			5.3					93				
Dew Point	1450878		35870		38.6		8.516		930			21.8					93				

USAFETAC FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

YEARS

 MAY
MONTH

PAGE 1

0600-0800
HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. - W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
80/ 79										.1								1	1					
74/ 73									.4	.2								6	6					
72/ 71							.2		.3		.1							6	6					
70/ 69					.1	.1	.1	.2		.1	.1							7	7					
68/ 67					.4	.4	.2	.5	.2	.1								18	18					
66/ 65				.1	1.3	.4	.9	.3	.1									29	29					
64/ 63				.3	1.5	.5	1.0	.4			.1							36	36					
62/ 61			.2	.5	.5	1.3	.6	.4	.2	.1								37	37	3				
60/ 59		.4	.5	1.4	1.6	1.5	1.1	.2	.1									64	64	10				
58/ 57		.8	1.4	.9	2.0	1.7	.5	.1	.1									70	70	36				
56/ 55		.6	1.0	1.2	2.2	1.4	1.4	.2										74	74	51				
54/ 53		.8	2.4	2.2	1.7	1.3	.9		.1									86	86	55				
52/ 51	.6	1.5	2.2	3.0	2.3	1.2	.3											103	103	80				
50/ 49	.1	1.9	3.7	1.6	2.5	1.6	.1	.1										108	108	97				
48/ 47	.3	2.7	1.9	1.5	1.3	.6		.1										79	79	121				
46/ 45		2.5	1.2	1.6	1.0	.1	.1											60	60	118				
44/ 43		2.0	1.3	1.0	.3	.2												45	45	103				
42/ 41		1.3	1.4	.6	.5	.2												38	38	92				
40/ 39		.9	.9	.9	.2	.1												27	27	59				
38/ 37		.2	.4	.2														8	8	33				
36/ 35	.1	.2	.1	.6	.1													11	11	25				
34/ 33	.2	.2	.2															6	6	20				
32/ 31		.4	.4	.1														9	9	7				
30/ 29		.1																1	1	13				
28/ 27			.1															1	1	6				
26/ 25																				1				
24/ 23																								
22/ 21																								
20/ 19																								
18/ 17																								
16/ 15																								
14/ 13																								
TOTAL	1.4	16.6	19.2	17.7	19.6	12.8	7.4	2.7	1.6	.6	.3							930	930	930				
Element (X)	Σx'			Σx		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	4139378			59929		64.4		17.285		930		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb	2605371			48649		52.3		8.070		930				1.1		3.8		.7						93
Wet Bulb	2016240			42876		46.1		6.522		930				2.7										93
Dew Point	1527197			36899		39.7		8.260		930				17.6										93

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION

73-82

MAY
MONTH

PAGE 2

~~0900-1100~~
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point	
16/ 15																					1	
14/ 13																					2	
12/ 11																					1	
TOTAL	.9	7.6	9.1	10.8	11.2	15.1	13.9	14.6	7.2	5.8	2.6	.9	.4					930		930		
																		930		930		

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-A2

MAY

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

MAY
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point	
88/ 87											.2			.1	.2	.1		6	6		
86/ 85										.1		.3	.1	.2	.1	.1		9	9		
84/ 83											.5	.2	.6	.1				14	14		
82/ 81									.1	.4	.9	.4	.2	.4				23	23		
80/ 79									.4	1.2	.6	.6	1.1	.1				38	38		
78/ 77							.1	.4	.8	.8	.6	1.0	.2	.1				37	37		
76/ 75							.2	.1	.8	1.3	1.1	.8	.1	.3				43	43		
74/ 73						.2	.5	.6	1.1	1.1	.6	.1	.3					43	43		
72/ 71					.1	.5	.9	.6	1.1	1.1	.9							48	48		
70/ 69					.2	.3	.3	1.6	1.0	1.3	.9							52	52		
68/ 67			.1	.6	.3	.8	.9	2.3	1.4	.6								65	65	3	
66/ 65		.2	.2	.3	.5	1.1	2.2	1.8	.4	.3								62	62	7	
64/ 63	.1	.3	.6	.3	.8	1.2	1.2	1.4	.8	.1								63	63	32	
62/ 61	.1	.4	.8	1.0	.9	1.3	1.4	.1										57	57	44	
60/ 59	.3	.3	1.4	.9	.8	1.0	.5											48	48	68	
58/ 57	.1	.4	.9	1.3	1.7	.5	.6	.6										58	58	73	
56/ 55	.3	1.0	.6	.9	1.2	1.1	.4	.2										53	53	82	
54/ 53	.5	1.5	1.8	.9	1.1	1.1	.3	.2										62	62	90	
52/ 51	.3	.1	1.3	.8	.6	.3	.8	.1	.1									41	41	115	
50/ 49	.8	1.5	.4	.4	.1	.2												32	32	107	
48/ 47	.2	.4	1.3	.9	.3	.4												33	33	103	
46/ 45	.6	1.5			.1	.2												23	23	69	
44/ 43	.2	.3																5	5	57	
42/ 41	.1				.3													4	4	42	
40/ 39	.3	.2	.2															7	7	13	
38/ 37			.1															1	1	9	
36/ 35																				6	
34/ 33			.1															1	1	7	
32/ 31	.1	.1																2	2	55	
30/ 29																				3	
28/ 27																				28	
26/ 25																				19	
24/ 23																				12	
22/ 21																				6	
Element (X)	ΣX^2		ΣX		\bar{X}		σ^2		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71
USAFETAC

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

YEARS

MAY
MONTH

PAGE 2

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
16 / 15																					6
TOTAL	.5	9.5	14.5	12.8	12.4	14.4	12.5	10.6	6.8	3.4	1.2	.6	.4	.2					930		930
																		930		930	

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

MAY
MONTH

PAGE 1 ~~2100-2303~~
MOORE (U) (C) (T) (I)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
74/ 73							.1											1	1					
72/ 71						.2	.1											3	3					
70/ 69					.1	.4	.1	.2	.2	.1								11	11					
68/ 67			.2		.4	.2	.1	.6	.1	.1								17	17					
66/ 65			.1	.2	.3	1.0	.5		.3									23	23					
64/ 63			.1	.4	.5	.4	1.0	.4	.1									28	28	2				
62/ 61		.2	.2	1.3	1.5	1.0	.6	.4	.1									50	50	6	1			
60/ 59		.3	.6	1.8	1.2	1.3	1.0	.2	.3									63	63	15	2			
58/ 57		.5	1.1	2.0	1.6	.8	.8	.3										66	66	19	6			
56/ 55		.5	1.4	1.0	1.2	1.3	.8	.1										58	58	48	15			
54/ 53		1.3	1.0	1.7	1.9	1.4	.2											70	70	70	18			
52/ 51	.2	1.0	4.2	2.0	2.0	1.0	.2		.1									100	100	78	40			
50/ 49	.2	3.0	3.6	1.9	1.2	1.6	.2											109	109	79	58			
48/ 47	.1	1.8	3.8	3.3	1.0	.5		.1										99	99	115	66			
46/ 45	.3	1.7	2.8	1.7	1.1	.3	.1											75	75	122	88			
44/ 43		1.7	1.4	1.5	.5	.2												50	50	104	73			
42/ 41		1.2	1.9	.8	.4	.4												44	44	89	104			
40/ 39		.6	1.1	.6	.3	.3												28	28	59	80			
38/ 37		.3	.5	.4	.5													17	17	44	79			
36/ 35		.4	.3	.1	.1													9	9	31	76			
34/ 33		.2																2	2	21	48			
32/ 31		.2	.3															5	5	15	47			
30/ 29		.1																1	1	8	36			
28/ 27																				4	21			
26/ 25																					24			
24/ 23																					13			
22/ 21																					14			
20/ 19																					5			
18/ 17																					3			
16/ 15																					9			
12/ 11																					3			
TOTAL	.9	15.3	24.7	21.0	16.0	12.4	5.8	2.5	1.3	.2								929	929	929				
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	4280023		61161		65.816		5.27		929		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total							
Dry Bulb	2542044		48058		51.7		7.765		929				.6	3.2	.1					93				
Wet Bulb	1998012		42640		45.9		6.638		929					2.7						93				
Dew Point	1530680		16081		10.8		8.533		929					17.5						93				

PSYCHROMETRIC SUMMARY

726625 ELL SMORTH AFB SD

73-A2

HAY

PAGE 1

ALL
HOURS (L.S.T.)

[illegible]

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

USAFETAC FORM 0-26.3 OL A PREV. C. EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY:

726625 ELLSWORTH AFB SD

73-82

JUN
MONTA

PAGE 1

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
84/ 83												.1						1	1																
80/ 79										.1			.1					2	2																
78/ 77										.3								3	3																
76/ 75									.4	.3	.1	.2						10	10																
74/ 73				.2		.1	.2	.6	.1	.1	.1							13	13																
72/ 71			.1	.1	.3	.1	.8	.2	.1									16	16																
70/ 69			.3	.7	.8	.9	.3	.3										32	32																
68/ 67		.3	.1	.7	.7	.7	1.1	.1	.1									52	52	4															
66/ 65		.2	.3	1.2	1.3	.6	1.9	.6	.2									70	70	8	6														
64/ 63		.1	.4	2.2	2.3	1.1	.4	.4										64	64	9	5														
62/ 61		.6	1.2	1.1	1.6	1.1	.9											58	58	29	4														
60/ 59		1.4	3.2	2.8	1.4	1.0	.4											93	93	75	9														
58/ 57	.1	2.0	2.2	2.6	2.3	.8	.7											96	96	88	31														
56/ 55		1.8	3.6	1.7	1.3	.8	.1											63	83	108	60														
54/ 53		1.4	4.0	2.1	1.0	.3												80	80	116	70														
52/ 51		1.4	1.9	3.1	.4	.2												64	64	112	96														
50/ 49		2.3	3.7	.7	.1	.3												64	64	95	89														
48/ 47		1.0	2.6	.9														40	40	74	109														
46/ 45		2.1	.8	.9														34	34	83	89														
44/ 43		.4	.6	.4														13	13	45	90														
42/ 41		.3	.3															6	6	23	94														
40/ 39		.1	.1	.2														4	4	18	62														
38/ 37																				4	28														
36/ 35	.1																	1	1	4	27														
34/ 33																					12														
32/ 31																					11														
30/ 29																					3														
28/ 27																					3														
TOTAL		.215	.725	.521	.214	.310	.0	7.3	3.2	1.2	.7	.1	.3	.1				.998	.999	.999															
Element (X)	Σx ²		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours v. h Temperature																								
Rel. Hum.	4432500		61504		68.435		104		890		≤ 0 F		+ 32 F		+ 67 F		+ 72 F		+ 80 F		+ 93 F		Total												
Dry Bulb	3076975		52141		58.0		7.677		899						12.9		2.9		.1				90												
Wet Bulb	3459769		46727		52.0		5.881		899						.4								90												
Dew Point	2018808		47181		46.8		6.500		899						1.7								90												

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

JUN
MONT:

PAGE 1 0600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point			
88/ 87												.1						1	1					
86/ 85												.1		.1				2	2					
84/ 83											.3							3	3					
82/ 81										.2								2	2					
80/ 79									.6			.2						7	7					
78/ 77							.1	.4	.3	.3	.1	.1						13	13					
76/ 75			.2			.2	.3	1.1	1.0	.1	.4							31	31					
74/ 73			.1	.1	.8	.6	1.0	.6	.4	.1	.1							34	34					
72/ 71			.4	1.1	.9	1.2	.7	.2		.2								43	43					
70/ 69		.2	.9	.7	1.7	1.8	.7	.6	.1									59	59	2				
68/ 67	.2	.2	1.3	2.0	1.2	.8	.9	.1	.2									63	63	3	1			
66/ 65	.1	.6	1.9	2.6	3.1	1.4	.6	.2	.1									95	95	18	5			
64/ 63		.8	1.8	3.1	2.2	1.2	.2	.4										88	88	45	7			
62/ 61	.6	1.7	2.7	3.0	1.8	.3	.4											94	94	73	5			
60/ 59	.8	1.6	2.6	2.8	1.4	.7												88	88	85	33			
58/ 57	1.0	2.9	3.1	1.2	.7	.6	.1											86	86	110	52			
56/ 55	.6	1.8	1.9	1.1	.4	.1												53	53	132	49			
54/ 53	1.3	2.7	1.7	.8	.6													63	63	131	87			
52/ 51	.3	.8	1.4	.4	.1													28	28	104	107			
50/ 49	.1	1.1	.3	.1														15	15	80	132			
48/ 47	.7	.3	.6															14	14	39	103			
46/ 45	.8	.6	.4															16	16	42	89			
44/ 43		.1	.1															2	2	22	65			
42/ 41																				10	59			
40/ 39																				3	29			
38/ 37																				1	29			
36/ 35																					17			
34/ 33																					16			
32/ 31																					13			
30/ 27																					2			
TOTAL	6.4	15.2	21.4	19.0	15.1	9.0	5.8	4.1	1.6	1.4	.7	.1	.1					900	900	900	900			
Element (X)	Σ x ²		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x			
Rel. Hum.	3665002		55782		62.02		5.230		900		± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F			
Dry Bulb	3570992		56278		62.5		7.588		900						25.8		9.3		1.2					
Wet Bulb	2715416		48191		54.7		5.471		900						5									
Dew Point	2150742		43578		48.4		6.728		900						1.5									

2

1

73-A2

YEARS

JUN
MONT

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 73

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

JUN
MONS

PAGE 2 5900-1100
HOURS (: : S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
32 / 31																					11	
30 / 29																					2	
28 / 27																					2	
TOTAL	.2	2.3	5.0	5.8	11.6	16.6	14.4	13.6	11.4	8.0	5.2	2.1	1.0	1.8	.7	.2	.1		900		900	
																		900		900		
										</												

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-42

YEARS

JUN
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

1200-1400
HOURS (L E T)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

JUN

STATION

STATION NAME

YEARS

JUN
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
36 / 35																					29
34 / 33																					10
32 / 31																					12
30 / 29																					5
28 / 27																					2
TOTAL		1.4	2.7	3.2	6.2	11.9	14.1	10.8	12.3	10.7	11.3	5.7	4.1	1.1	2.3	1.0	1.0		899		899
																		899		899	
													</								

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-82

YEARS

JUN
MONTH

PAGE 1 1500-1700
HOURS 11 5 7 1

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JUN
MONT

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD.
STATION STATION NAME

73-82

YEARS

JUN
MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

JUN
MONTH

PAGE 2 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
26 / 25																					1
24 / 23																					1
TOTAL		3.0	8.9	12.1	14.0	13.7	13.8	11.3	7.6	5.4	5.0	2.3	1.3	.6	.4	.3	.2	900	900	900	900

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

JUN

726625
STATION

ELL SHORTH AFB SD

STATION NAME

YEARS

MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

3100-3300

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	*31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point			
84/ 83									.1	.1		.1						3	3					
82/ 81								.1	.1		.1			.1				4	4					
80/ 79							.3		.2	.6					.1	.1		12	12					
78/ 77					.1		.2	.1	1.0	.6	.1							19	19					
76/ 75			.1		.2	.2	.3	.3	.2	.6	.4							22	22					
74/ 73		.1		.2	.3	.7	.7	.6	.2	.2								27	27					
72/ 71				.2	.3	1.0	1.2	.6	1.0	.4								43	43	2	1			
70/ 69		.1	.2	.2	1.2	1.2	1.2	.8	.3	.1								49	49	2	1			
68/ 67	.1	.4	.2	.7	2.2	2.1	1.2	1.3	.2									77	77	14	1			
66/ 65		.1	.8	1.3	2.8	1.4	1.6	.9	.2									82	82	17	6			
64/ 63			.8	2.2	1.7	1.1	.8	.6	.2									66	66	24	11			
62/ 61		.3	1.3	2.6	2.6	2.0	.8	.2										88	88	71	9			
60/ 59		1.8	2.0	1.6	2.0	1.0	.7											82	82	78	19			
58/ 57		1.0	2.8	2.4	1.1	.6	.1											72	72	136	49			
56/ 55		.7	3.0	2.4	.9	.3												66	66	103	75			
54/ 53		.4	2.4	2.4	.6	.1												54	54	113	86			
52/ 51		1.1	1.9	2.4	.1		.1											51	51	92	91			
50/ 49		1.6	1.7	1.0	.2	.2												42	42	91	93			
48/ 47		.4	1.8	.3	.1													24	24	66	97			
46/ 45		.6	.2	.8														14	14	48	114			
44/ 43		.2																2	2	26	75			
42/ 41		.1																1	1	7	62			
40/ 39																				10	44			
38/ 37																					32			
36/ 35																					16			
34/ 33																					9			
32/ 31																					6			
28/ 27																					1			
26/ 25																					2			
TOTAL	.1	9.0	19.2	20.9	16.4	12.0	9.2	5.6	3.9	2.6	.7	.1	.1	.2				900	900	900	900			

PSYCHROMETRIC SUMMARY

726625 ELLSMORTH AFB SD

73-82

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point															
106/105																		.0	1	1															
104/103																		.0	2	2															
102/101																		.0	3	3															
100/99																.0	.0	.1	9	9															
98/97																.0	.0	.1	7	7															
96/95												.0		.0	.1	.0	.0	.0	12	12															
94/93												.0	.1	.1	.1	.1	.0	.0	25	25															
92/91												.1	.1	.1	.1	.1	.1	.1	42	42															
90/89									.0		.1	.2	.2	.1	.1	.1	.0		56	56															
88/87								.1	.0	.1	.3	.3	.1	.1	.1	.1	.0		84	84															
86/85							.1	.0	.1	.3	.8	.3	.1	.2	.1				139	139															
84/83						.0	.1	.1	.4	.6	.8	.2	.3	.1	.1				190	190															
82/81				.0	.0	.1	.5	.6	.5	.6	.3	.2	.1	.1					205	205															
80/79			.0	.1	.3	.3	.6	.6	.5	.3	.2	.0							219	219															
78/77			.1	.2	.4	.8	.8	.8	.6	.3	.1								292	292															
76/75			.1	.5	.8	.8	.8	.8	.4	.2	.0								319	319															
74/73	.0	.0	.1	.2	.5	1.0	1.0	.9	.4	.1	.1								321	321	19														
72/71	.0	.1	.1	.5	1.1	1.2	.9	.9	.3	.1									375	375	29	2													
70/69	.0	.1	.3	.7	1.1	1.8	.9	.5	.2	.0									408	408	94	14													
68/67	.0	.2	.6	1.2	1.7	1.0	1.0	.4	.2	.0									457	457	216	21													
66/65	.1	.3	1.0	1.5	1.5	1.6	.8	.3	.0	.0									514	514	380	41													
64/63	.0	.6	1.4	1.8	1.3	1.0	.4	.2	.0										480	480	436	71													
62/61	.4	1.2	1.6	1.8	1.4	.5	.2												500	500	567	107													
60/59	.0	1.0	1.2	1.7	1.7	1.0	.5	.0	.0										513	513	725	241													
58/57	.0	.8	1.9	1.9	1.3	.7	.3	.1											500	500	900	413													
56/55	.0	.7	1.9	1.3	.9	.3	.1	.0											382	382	808	568													
54/53	.0	.6	2.0	1.1	.6	.3	.0	.0											337	337	819	630													
52/51	.7	1.0	1.3	.3	.1	.0													252	252	681	749													
50/49	.8	1.4	.5	.2	.1														211	211	487	766													
48/47	.6	1.2	.4	.1	.0														165	165	359	775													
46/45	.0	.7	.3	.3	.0														102	102	324	699													
44/43	.2	.3	.1																37	37	188	576													
42/41	.1	.1	.0																18	18	84	529													
40/39	.1	.1	.0																18	18	49	333													
Element (X)	Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X														
Rel. Hum.																																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

?

1

73-02

YEARS

JUN
MONTH

PAGE 2

411

ALL
HOURS 11.5.7.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
36/ 37			.0															1	1	18	234		
36/ 35	.0	.0																2	2	13	191		
34/ 33																				1	100		
32/ 31																					100		
30/ 29																					14		
28/ 27																					14		
26/ 25																					8		
24/ 23																					2		
TOTAL	.1	7.0	13.9	13.9	13.0	11.8	10.8	7.9	6.5	4.8	4.3	2.4	1.3	.8	.8	.3	.4	7198	7198	7198	7198		

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

YEARS

PAGE 1

1000-0200
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
94/ 93																.1		1	1		
92/ 91																.2		2	2		
90/ 89															.1			1	1		
86/ 85													.1					1	1		
84/ 83														.1				1	1		
82/ 81						.1		.2	.1		.2	.1						7	7		
80/ 79					.1			.5	.4	.2								12	12		
78/ 77			.2	.1	.1		.8	.2	.4	.2	.1							20	20		
76/ 75				.2	.2	.2	1.0	.2	1.2	.9	.4							38	38		
74/ 73			.1	.2	.3	1.0	1.6	1.1	1.3	.3	.2							57	57		
72/ 71	.1	.2	.1	.6	1.4	1.5	2.0	1.4	.5	.3								77	77	9	1
70/ 69	.2	.3	.6	2.3	1.8	1.8	2.9	.8	1.0	.3								112	112	7	8
68/ 67		.8	1.1	1.7	2.6	2.2	1.6	.9	.3									103	103	7	6
66/ 65		1.2	1.0	2.3	3.2	1.7	1.2	.4	.3									105	105	43	13
64/ 63	.2	.8	2.7	3.5	2.9	1.6	.5	.4	.1									119	119	93	28
62/ 61	.6	1.2	1.2	3.8	2.3	1.3	.2											98	98	96	30
60/ 59	.3	1.3	2.0	2.0	1.7	.6	.4											79	79	160	64
58/ 57	.3	1.1	1.7	1.5	.6	.3	.3	.1										56	56	185	72
56/ 55		.5	1.2	.4	.2		.1											23	23	135	114
54/ 53		1.0	.2	.3														14	14	89	104
52/ 51			.1		.2	.1												4	4	70	120
50/ 49																				22	107
48/ 47																				7	88
46/ 45																				4	64
44/ 43																				3	41
42/ 41																					23
40/ 39																					18
38/ 37																					14
36/ 35																					8
34/ 33																					5
32/ 31																					2
TOTAL	1.8	8.3	12.0	18.9	17.6	12.7	11.9	6.0	5.7	2.8	1.1	.3	.2	.2	.2	.1		930	930		930
Element (X)	Σ X ²		Σ X		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.	3942743		58417		62.81		7.153		930		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb	4105161		61519		66.1		6.200		930					43.2	14.0	1.8	.1	93			
Wet Bulb	3158309		53963		58.0		4.525		930					2.3				93			
Dew Point	2561367		48409		52.1		4.678		930				.2	1.5				93			

2

1

STATION NAME

73-82

YEARS



PAGE 1

~~0300-0500~~

669.052

USAFETAC FORM 9-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

PSYCHROMETRIC SUMMARY

PAGE 1 0600-0800
HOURS 11 5 11

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

JUL
MON

PAGE 2

0600-0800
HOURS (L. S. T.)

[illegible]

2

1

73-A2

JUL
MON 1964

0900-1100
HOURS (i.e., S. I.)

569 052

USAFETAC FORM 0-26-3 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
JUN 71

2

1. 2.

73-A2

YEARS

MONTE

HOURS (L.S.)

569-052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

2

73-82

YEARS

JUL
MON

1200-1400
HOURS M. S. L.

669.052

USAFETAC FORM 0-26-3.01A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-82

YEARS

---JUL
MONTH

PAGE 2 ~~1200-1400~~

[illegible]

2

2

73-A2

YEARS

JUL
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point															
112/111																	.1	1	1																	
108/107																	.2	2	2																	
106/105																	.3	3	3																	
104/103																	.5	5	5																	
102/101																	1.7	16	16																	
100/ 99																.3	.4	.8	14	14																
98/ 97													.2	.1	.1	.8	1.0	20	20																	
96/ 95												.1	.2	.2	1.5	1.5	.6	39	39																	
94/ 93										.1	.2	.4	1.0	1.8	2.4	.9	.3	66	66																	
92/ 91									.2	.2	.2	.2	1.1	2.2	1.3	.2	.4	56	56																	
90/ 89									.1	.5	1.0	1.4	1.7	1.2	.5	.4		64	64																	
88/ 87									.3	1.2	1.4	1.9	1.6	1.1	.6	.1		77	77																	
86/ 85								.3	.4	1.2	1.1	2.5	1.3	1.1	.9	.2		83	83																	
84/ 83								.3	.4	.6	1.3	1.9	1.4	.4	1.0			69	69																	
82/ 81						.3	.3	.8	1.7	2.0	1.5	.4			.1			70	70																	
80/ 79					.4	.2	.2	.9	2.8	1.8	1.2	.8		.3	.1			77	77																	
78/ 77					.2	.4	.2	1.7	1.9	1.3	1.0							63	63																	
76/ 75				.1	.2	.6	1.1	1.5	1.3	.9	.2	.2	.2					59	59	4																
74/ 73				.5	1.0	.3	1.2	.9	.4	.3								43	43	14																
72/ 71				.8	.2	.3	.5	.5	.2									24	24	51																
70/ 69		.2	.2	.2	.4	.3	.9											21	21	79	3															
68/ 67		.2	.3	.3	.5	.8	.1											21	21	150	21															
66/ 65		.3		.1	.5	.4												13	13	172	17															
64/ 63			.4	.1														5	5	180	35															
62/ 61			.3															3	3	112	52															
60/ 59		.1	.5															6	6	93	53															
58/ 57		.2	.1	.3														6	6	50	65															
56/ 55		.3																3	3	16	112															
54/ 53																				6	108															
52/ 51																				2	122															
50/ 49																					91															
48/ 47																					74															
46/ 45																					61															
44/ 43																					42															
Element (X)	Σ x ²			Σ x			x̄			x _n			No. Obs.			Mean No. of Hours with Temperature																				
Rel. Hum.																≤ 0 F	• 32 F	• 67 F	• 73 F	• 80 F	• 93 F	Total														
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-82

YEARS

JUL
MONTH

PAGE 2 ~~1500-1700~~

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

JUL
1954

PAGE 1 1800-2000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
100/ 99																	.6	6	6																
98/ 97																	.1	1	1																
96/ 95															.2	.1	.6	10	10																
94/ 93															.3	.3	.1	9	9																
92/ 91											.1	.2	.4	1.2	.5	.2	.1	26	26																
90/ 89										.1	.5	.5	.9	.3	.4	.3		29	29																
88/ 87								.2	.2	1.0	.5	.6	1.0	.5	.3	.1		42	42																
86/ 85					.1		.1	.3	.8	.9	1.5	1.1	.9	.3	.2			57	57																
84/ 83					.2	.2	.1	.1	.9	1.4	1.6	.9	.5	.1				54	54																
82/ 81					.2	.5	.1	1.3	1.7	1.7	1.4	.9	.6	.1				80	80																
80/ 79			.1		.1	.3	.8	1.0	2.7	1.8	1.1	.6	.3	.1				83	83																
78/ 77				.2	.5	1.2	.5	2.8	2.2	1.7	.5	.3						93	93	1															
76/ 75				.4	.6	1.0	2.2	2.0	1.4	1.5	.4	.3						92	92	1	1														
74/ 73			.1	.4	.8	1.3	2.8	1.9	1.4	.5	.1							87	87	8	1														
72/ 71			.1	1.1	.6	1.6	1.4	.8	1.6	.3	.1							71	71	26															
70/ 69		.3	.3	.9	1.1	1.5	1.2	.5										54	54	53	6														
68/ 67			1.3	.4	1.2	1.4	.4	.4	.1	.1								50	50	80	17														
66/ 65		.1	.3	.6	1.0	.3	.3											25	25	137	25														
64/ 63	.1	.3	.6	1.0	.8	.1												27	27	180	29														
62/ 61			.4	.4	.3													11	11	144	71														
60/ 59		.1	.8	.1														9	9	123	50														
58/ 57		.1	.6	.2														9	9	96	80														
56/ 55		.3	.1															4	4	56	116														
54/ 53		.1																1	1	21	117														
52/ 51																				3	119														
50/ 49																				1	76														
48/ 47																					60														
46/ 45																					53														
44/ 43																					39														
42/ 41																					24														
40/ 39																					22														
38/ 37																					11														
36/ 35																					8														
34/ 33																					1														
Element (X)	Σ X'		Σ X		Σ		Σ ₂		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

2

11

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4.

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USAFETAC FORM 0 26 3 OLD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26.3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

PSYCHROMETRIC SUMMARY

73-A2

YEARS



Jill
MONTH

PAGE 1

ALL

HOURS 11.5 T.1

[illegible]

PSYCHROMETRIC SUMMARY

73-82

444

STATION

STATION NAME

YEARS

JUL
MON

PAGE 2

All

HOURS 11-5 P.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
42/ 41																				1	196	
40/ 39																					134	
38/ 37																					83	
36/ 35																					52	
34/ 33																					18	
32/ 31																					15	
30/ 29																					4	
28/ 27																					3	
26/ 25																					3	
24/ 23																					2	
20/ 19																					2	
TOTAL	.7	4.5	7.1	10.2	11.2	9.8	9.5	9.7	8.7	7.1	5.4	4.3	3.5	3.1	2.0	1.5	1.7	7438	7438	7438	7438	

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION

73-82

ALG

PAGE 1 0000-0200
HOURS (L. S. T.)

[illegible]

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION

73-62

AUG
MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A; PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
JUNE 71

PSYCHROMETRIC SUMMARY:

~~726625~~ ~~ELLSWORTH AFB SD~~

73-A2

AUG

PAGE 1

0600-0800
HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
92/ 91																.1		1	1			
90/ 89																.1	.1	2	2			
88/ 87														.1				1	1			
86/ 85											.1	.2	.3					6	6			
84/ 83									.1		.1	.2						4	4			
82/ 81									.1		.1	.2		.1				5	5			
80/ 79								.1		.6	.5							12	12			
78/ 77							.3	.1	.5	.8	.8	.2						25	25			
76/ 75					.3	.1	.8	.1	1.2	.6	.3							32	32			
74/ 73			.2		.2	.8	1.4	2.5	.6	.4	.1							58	58			
72/ 71		.1		.2	1.1	1.9	1.4	1.3	1.0		.1							66	66			
70/ 69		.3	.3	1.5	1.1	1.6	2.8	1.3	.9	.1	.1							93	93	3	2	
68/ 67	.1	.2	1.0	1.7	3.0	1.5	1.9	1.0	.2	.2								101	101	11	5	
66/ 65	.1	.5	1.6	1.7	1.6	2.7	1.3	.4	.1									94	94	25	5	
64/ 63	.3	1.2	1.4	2.8	2.8	2.6	1.1	.5	.2									120	120	65	18	
62/ 61		1.0	1.3	1.4	3.7	1.7	.6	.2										92	92	116	26	
60/ 59		1.1	1.0	1.9	2.3	1.0	.2	.1										70	70	152	50	
58/ 57	.3	.8	1.1	1.6	1.0	1.1	.2	.1										57	57	139	69	
56/ 55		.4	.9	1.4	.5	.1	.1											32	32	128	78	
54/ 53		.6	.9	1.1	.3	.3												30	30	99	79	
52/ 51		.3	.6	.3	.2	.1												15	15	83	91	
50/ 49		.3	.4		.3													10	10	51	123	
48/ 47			.2	.1														3	3	34	108	
46/ 45			.1															1	1	10	92	
44/ 43																				12	66	
42/ 41																				2	43	
40/ 39																					28	
38/ 37																					18	
36/ 35																					13	
34/ 33																					7	
32/ 31																					8	
30/ 29																					1	
TOTAL	.9	6.9	11.0	15.8	18.4	15.5	12.2	7.7	4.9	2.8	2.3	.9	.4	.1	.2	.1		930	930	930	930	
Element (X)	Σ x'			Σ x			x̄			σ _x			No. Obs.			Mean No. of Hours with Temperature						
Rel. Hum.	3602632			55718			59.9			16.872			930			≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	8033971			60895			65.5			7.087			930					40.6	14.6	2.4		93
Wet Bulb	3015074			52748			56.7			5.008			930					1.4				93
Dew Point	2174180			46554			50.1			6.000			930					.9	.7			93

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

AUG

PAGE 1 0900-1100
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point							
102/101																	.1	1	1								
100/ 99																	.1	2	2								
98/ 97																	.1	1	1								
96/ 95														.1			.5	6	6								
94/ 93													.1	.2	.5	.2	.5	15	15								
92/ 91													.5	.3	.2	.5		15	15								
90/ 89									.1		.1	.3	.8	.4	.4			20	20								
88/ 87									.1		.3	.5	.6	.6	.4			25	25								
86/ 85							.1		.3	.9	.9	1.1	1.0	.6				45	45								
84/ 83						.3	.1	.3	.2	.3	1.1	1.4	.6	.3				44	44								
82/ 81					.4	.5	.5	1.2	1.2	1.3	1.0	.2	.2					61	61								
80/ 79				.1	.5	.3	1.0	1.3	1.6	1.7	1.8	.5	.3	.2				86	86								
78/ 77			.1	.3	1.2	.3	1.7	2.3	1.7	.4	.4	.1						80	80								
76/ 75	.1			.5	1.3	1.2	2.7	2.0	1.6	.6	.1							95	95								
74/ 73			.2	.9	1.4	1.8	2.3	1.2	.4		.4							80	80	9							
72/ 71			.4	1.0	1.7	1.4	1.6	1.1	.4	.2								73	73	12							
70/ 69	.1	.1	.9	1.7	1.4	1.5	1.5	1.2	.2	.1								81	81	30							
68/ 67	.1	.3	.4	1.4	.6	1.2	1.0	.2										49	49	65							
66/ 65	.1	.4	.4	.8	1.5	1.2	1.1	.1	.1									53	53	91							
64/ 63	.1	.2	.4	1.0	.6	.5	.5	.1										33	33	142							
62/ 61	.2	.1	.3	.6	.3	.4	.1											20	20	176							
60/ 59	.2	.1	.2	.2	.6	.1												14	14	130							
58/ 57	.2	.4	.4	.3														13	13	80							
56/ 55	.2		.3															5	5	85							
54/ 53	.3		.1		.3													7	7	46							
52/ 51		.3	.2															5	5	35							
50/ 49		.1																1	1	16							
48/ 47																				7							
46/ 45																				3							
44/ 43																				3							
42/ 41																											
40/ 39																											
38/ 37																											
36/ 35																											
Element (X)	ΣX^2				ΣX				\bar{X}				σ_x				No. Obs.				Mean No. of Hours with Temperature						
Rel. Hum.																					$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb																											
Wet Bulb																											
Dew Point																											

669-032
USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

AUG
MONTH

PAGE 2 ~~0900-1100~~
HOURS (11.5.7.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
34 / 33																					5
32 / 31																					7
30 / 29																					1
28 / 27																					1
TOTAL		1.7	2.2	4.3	9.6	12.2	11.4	14.6	11.7	8.6	6.9	5.8	4.3	2.9	1.6	1.0	1.3	930	930	930	930

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

AUG

PAGE 1 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

73-82

YEARS

AUG
MONTH

PAGE 2

1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

AUG
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

2

2

1

YEARS

AUG
MONTH

1

1



USAFETAC

AUG
MONTH

HOURS: 9 A.M. - 5 P.M.

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

AUG
MONT

1800-2000
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
88/ 87													.1					1	1				
84/ 83											.1							1	1				
82/ 81									.1	.2	.3	.2	.2					10	10				
80/ 79							.1		.5	.6	.4	.1	.2					19	19				
78/ 77						.1	.1	.8	.8	.8	.6	.2						31	31				
76/ 75			.1		.4	.3	.3	1.5	1.0	.8	.2							43	43				
74/ 73				.2	1.0	.3	1.2	1.6	1.5	1.1	.3							67	68				
72/ 71			.2	.3	.5	1.0	.6	1.9	2.2	.4	.2							69	69	1	1		
70/ 69			.4	1.2	1.1	1.8	2.7	2.6	1.0	.3								103	103	2			
68/ 67		.6	1.1	1.6	1.2	2.0	1.8	1.5	.1	.2								95	95	11			
66/ 65	.1	.8	1.6	1.9	2.0	3.7	1.8	.6	.8									124	124	38	12		
64/ 63		.9	1.2	1.6	2.7	2.2	1.1	.3	.2									94	94	57	18		
62/ 61		1.3	1.0	1.8	2.4	1.3	.8	.5	.3									87	87	111	34		
60/ 59		1.0	1.1	1.6	2.0	1.7	.6	.2										77	77	121	46		
58/ 57		.2	.5	1.4	1.3	.5	.1	.1										39	39	153	45		
56/ 55		.6	.6	1.1	.9	.2	.1											33	33	154	83		
54/ 53		.1	.2	.4	.5	.3	.3											18	18	99	75		
52/ 51		.2		.3		.4												9	9	80	77		
50/ 49	.3		.1	.1		.1												6	6	48	105		
48/ 47			.2															2	2	30	107		
46/ 45																				13	99		
44/ 43																				7	77		
42/ 41																				3	54		
40/ 39																					29		
38/ 37																					21		
36/ 35																					17		
34/ 33																					11		
32/ 31																					14		
30/ 29																					3		
TOTAL	.4	5.7	8.4	13.7	16.1	16.1	11.7	11.7	8.4	4.4	2.3	.5	.5					928	929	928	928		
Element (X)	Σx^2		Σx		\bar{x}		σ_x		No. Obs.		Mean No. of Hours with Temperature							Total					
Rel. Hum.	3265202		52776		56.916		8.669		928		+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	93						
Dry Bulb	4122675		61581		66.3		6.617		929		48.0 17.3 2.1							93					
Wet Bulb	3010535		52655		56.7		4.967		928		1.4							93					
Dew Point	2311247		45811		49.4		7.328		928		1.7 .1							93					

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

2

73-82

YEARS

AUG
MONTH

PAGE 1

ALL
HOURS (L. S. T.)

569.052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

73-A2

 AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL

HOURS (L.A.T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

SEP
MONTH

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL											
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point												
78/ 77												.1						1	1														
76/ 75								.1		.1		.1						3	3														
74/ 73									.4	.9	.4	.1						17	17														
72/ 71							.3	.1	.4	.3								11	11														
70/ 69					.3	.1	.3	.8	.1	.1								16	16														
68/ 67				.3		1.1	1.3	.6	.6	.2								37	37														
65/ 65			.7	.2	.6	.7	.8	.8	.6									38	38														
64/ 63			.2	.3	.9	.8	.9	1.2	.2	.1								32	39	1													
62/ 61		.1	.4	1.0	.8	1.0	1.1	.2	.2									44	44	15													
60/ 59		.2	.2	1.8	1.8	1.6	1.8	.4	.2									72	72	9	9												
58/ 57		.9	.9	1.1	1.3	1.4	1.1	1.2	.1									73	73	49	6												
56/ 55	.2	.6	.4	2.1	2.9	1.8	1.0	.3										81	81	64	13												
54/ 53		.2	2.7	2.2	1.9	2.2	1.7	.4										102	102	64	21												
52/ 51		.4	1.4	2.4	2.8	1.4	.9	.1										86	86	74	41												
50/ 49		.8	2.2	2.6	2.0	.9												76	76	87	32												
48/ 47		1.0	1.7	1.6	1.3	.8												57	57	99	47												
46/ 45		.1	1.2	1.1	1.1	.3												35	35	117	77												
44/ 43		.6	1.6	1.3	.8													42	42	88	70												
42/ 41	.1	.6	1.3	.9														26	26	83	75												
40/ 39	.1	.7	.8	1.1														24	24	69	77												
38/ 37		.2	.4	.2	.1													9	9	34	99												
36/ 35		.4	.2	.1														7	7	26	92												
34/ 33			.1	.2														3	3	11	47												
32/ 31				.1														1	1	6	68												
30/ 29																				1	42												
28/ 27																				2	39												
26/ 25																				1	22												
24/ 23																					12												
22/ 21																					5												
20/ 19																					3												
16/ 15																					2												
14/ 13																					1												
TOTAL	.4	6.8	16.6	21.2	18.6	13.4	11.2	6.3	2.9	1.8	.4	.3						900	900	900	900												
Element (%)	Σ x ²			Σ x			x̄			σ _x			No. Obs.			Mean No. of Hours with Temperature																	
Rel. Hum.	3343218			52843			58.716.338			900			≤ 0 F			≤ 32 F			≤ 67 F			≥ 73 F			≥ 80 F			≥ 93 F			Total		
Dry Bulb	2742409			49103			54.6			8.398			900						.1			8.5			2.1						90		
Wet Bulb	2026677			42299			47.0			6.559			900						1.0												90		
Dew Point	1450403			75787			19.3			8.103			900						19.4												90		

SEP

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

SEP

PAGE 1 0300-0500

HOURS: 11 - 6 P.M.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
80/ 79											.1							1	1						
78/ 77										.1	.2							3	3						
76/ 75												.1						1	1						
74/ 73										.1			.1					1	1						
72/ 71								.1	.6	.1		.1						8	8						
70/ 69							.2	.1	.9	.3								14	14						
68/ 67						.6	.2	.4	.3	.3	.1							18	18						
66/ 65			.1		.1	.6	.6	.3		.1								16	16						
64/ 63		.4	1.0	.4	.3	.8	.7	.6	.1									39	39						
62/ 61			.3	.6	1.1	1.0	.9	.7										41	41	8	4				
60/ 59	.2	.1	.6	1.1	2.4	1.2	1.8	.3	.2									72	72	14	6				
58/ 57		.2	1.4	1.1	1.4	2.2	.6	.2	.1									66	66	20	6				
56/ 55	.2	.9	1.1	1.7	1.9	1.9	1.6	.1										84	84	48	8				
54/ 53		.6	2.9	2.7	2.1	1.7	.7											95	95	57	18				
52/ 51		.2	1.1	1.9	1.7	1.3	1.0	.2										67	67	79	25				
50/ 49		1.0	2.7	2.2	1.0	1.1	.3											75	75	89	34				
48/ 47		1.4	2.9	3.1	2.0	.1												86	86	105	39				
46/ 45		.7	1.7	2.0	2.2	.2												61	61	101	88				
44/ 43			2.0	2.3	.8	.3												49	49	93	67				
42/ 41	.1	.9	2.3	1.2	.3													44	44	75	83				
40/ 39		.7	1.2	1.4	.1													31	31	82	75				
38/ 37		.9	.3	.4														15	15	59	89				
36/ 35	.1	.1	.2	.1														5	5	39	91				
34/ 33		.2	.3															5	5	18	54				
32/ 31				.2														2	2	7	81				
30/ 29				.1														1	1	3	43				
28/ 27																					30				
26/ 25																				3	30				
24/ 23																					18				
22/ 21																					6				
20/ 19																					2				
16/ 15																					3				
TOTAL	.7	8.3	22.2	22.7	17.6	13.0	8.4	3.1	2.2	1.1	.4	.2						900	900	900	900				
Element (X)	Σx ²		Σx		X̄		s _x		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.	3646847		55403		61.6		16.2		900		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total								
Dry Bulb	2546509		47309		52.6		8.1		900			.3	4.6	.6			90								
Wet Bulb	1927321		41229		45.8		6.5		900				1.3				90								
Dew Point	1411168		38894		38.8		8.0		900				21.3				90								

2

17.

73-A2

SEP

726625
STATION

STATION NAME

YEARS

~~SEP~~
MONTH

PAGE 1

0600-0800

HOURS 11:30 - 1:00

569-052

USAFETAC FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

PSYCHROMETRIC SUMMARY

YEARS

SEP
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

469-052

USAFETAC FORM 0-26-3 OL A; PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 73

PSYCHROMETRIC SUMMARY

~~726625~~ STATION ~~ELLSWORTH AFB SD~~ STATION

73-A2

SEP

PAGE 2

~~0900-1100~~

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

SEP

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point							
104/103																	.1	1	1									
102/101																	.6	5	5									
100/ 99																	.4	4	4									
98/ 97																	1.0	9	9									
96/ 95														.1		.3	.8	11	11									
94/ 93														.3	.3	.2	.8	15	15									
92/ 91													.1	.3		.2	.8	13	13									
90/ 89											.1		.2	.7	.4	1.1	.4	27	27									
88/ 87										.1	.2	.3	.4		.8	.8		24	24									
86/ 85										.1	.6	.3	.8	.9	1.1	.1		35	35									
84/ 83										.3	.7	.6	1.3	1.7	.8			48	48									
82/ 81								.1	.7	.8	.9	.7	1.7	1.2	.2			53	53									
80/ 79								.2	1.2	.8	1.0	1.2	1.2	.9	.1			57	57									
78/ 77							.1	.6	.8	1.1	.8	1.3	.8	.1				47	47									
76/ 75							.4	.6	.7	.1	1.4	1.1	.3	.1				43	43									
74/ 73							.3	.8	1.2	1.6	2.0	.9						65	65									
72/ 71						.4	.3	1.1	1.6	.9	.6	.2						46	46									
70/ 69					.2	.1	.7	.6	1.4	.7	.9	.3	.1					45	45	3								
68/ 67					.2	.4	.7	1.8	.6	.7	.9	.1						48	48	16								
66/ 65				.1	.1	.3	2.2	.9	1.8	1.0	.1							56	56	43								
64/ 63		.1	.3	.6	.8	1.6	.9	1.3	.3	.1								54	54	65								
62/ 61		.1	.3	.1	1.2	.7	.6	1.1	.2									39	39	65								
60/ 59		.1	.1	.9	.3	.6	.8	.1										26	26	93	4							
58/ 57		.2	.6	.2	1.0	.6	.9	.1										32	32	103	28							
56/ 55	.1	.3	.2	.3	1.1	.6	.4	.1										29	29	107	24							
54/ 53	.2	.2	.2	.8	.4	.1												18	18	120	29							
52/ 51	.2	.6	.1	.3	.6													16	16	68	30							
50/ 49	.1	.6		.2		.1												9	9	54	51							
48/ 47	.1	.8		.2														10	10	59	66							
46/ 45	.2	.1	.2															5	5	45	54							
44/ 43	.2		.2															4	4	32	73							
42/ 41		.4																4	4	12	81							
40/ 39		.2																2	2	9	85							
38/ 37																				5	73							
Element (X)	Σ X ²		Σ X		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature										Total							
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F												
Dry Bulb																												
Wet Bulb																												
Dew Point																												

669-052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

SEP

PAGE 2 ~~1200-1400~~
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

SEP

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

SEP

PAGE 2 ~~1500-1700~~

[illegible]

2

1.

73-82

YEARS

SEP
MONTH

PAGE 1 1800-2000
HOURS: () S () T ()

669-052

USAFETAC FORM 0-26.3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 7:

USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

SEP
MONTH

PAGE 2 1800-2000
HOURS (L S T J)

[illegible]

PSYCHROMETRIC SUMMARY

73-82

YF AR:

SEP
MONTH

PAGE 1 2100-2300
HOURS (L, S, T.)

[illegible]

USAFETAC FORM 0-26-3 QL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
(JUN 71)

2

726625	ELLSWORTH AFB SD	73-82	SEP
STATION	STATION NAME	YEARS	MONTH

PAGE 2 2100-2300
HOURS []

[illegible]

USAFETAC 0-26-3 'OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
FORM: JUN 71

569-052

2

1.

23-A2

SEP

726625
STATION

STATION NAME

YEARS

SEP

PAGE 1

414

HOURS (L, S, T,)

669-052

USAFETAC FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

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PSYCHROMETRIC SUMMARY

73-A2

SEP
MONTH

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

2

172

73-A2

YEARS

.. OCT
MONTH

0000-0200
HOURS (L. S. T.)

USAFETAC FORM 0-26-3 (OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

Q.C.T.
MONIA

PAGE 1 0300-0500
HOURS (L. S. T.)

[illegible]

2

126625 ELLSWORTH AFB SD 73-82 OCT
STATION STATION NAME YEARS MONTH
PAGE 1 0600-0800
HOURS (L. S. T.)

669-052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 77

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~

73-82

OCI

STATION

STATION NAME

YEARS

MONTH

PAGE 2

~~0600-0800~~

MOULTS IN 1961

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

226675 ELLSWORTH AFB SD

73-82

OCT

PAGE 1 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point												
90/ 89																.1		1	1														
86/ 85																.1		1	1														
84/ 83														.1	.1			2	2														
82/ 81													.2	.2	.2			6	6														
80/ 79												.1	.1	.4	.1			7	7														
78/ 77												.2	.9					10	10														
76/ 75											.4	1.0	.4	.1				18	18														
74/ 73										.2	.8	.9	.1					18	18														
72/ 71									.1	.5	1.4	.5						24	24														
70/ 69								.2	.3	1.4	1.6	.1						34	34														
68/ 67							.2	.6	1.8	1.4	.6	.1						45	45														
66/ 65						.1	.2	.8	1.8	1.3	.3							42	42														
64/ 63						.3	.4	.4	1.7	.4	.2							33	33														
62/ 61				.1	.1	.3	1.6	1.6	.6	.4								45	45														
60/ 59				.1	.3	.6	1.6	1.4	1.3	.2								52	52	1													
58/ 57			.1	.2	.5	.8	1.4	2.2	.6									54	54	5													
56/ 55				.2	.4	1.4	1.6	1.5	.3									51	51	24													
54/ 53				.1	.8	1.5	2.7	.5	.1									53	53	68													
52/ 51			.3	.6	1.5	1.1	1.9	.4	.1									56	56	78	3												
50/ 49			.5	1.1	1.6	1.6	1.5	.1										60	60	82													
48/ 47		.1	1.2	1.3	1.5	1.2	.4											53	53	71	6												
46/ 45		.3	1.0	1.7	1.6	1.2												54	54	86	11												
44/ 43		.6	.5	1.0	.8	.6												33	33	111	17												
42/ 41		.9	.5	.8	.5	.8												32	32	87	12												
40/ 39	.3	1.3	1.3	1.1	.4	.1												42	42	88	65												
38/ 37	.1	.3	1.4	.6	.2	.1												26	26	66	85												
36/ 35	.2	1.1	.8	.6	.1													26	26	47	104												
34/ 33	.3	.9	1.4	.2														26	26	40	90												
32/ 31		.5	1.3	.3														20	20	28	133												
30/ 29	.1	.1	.4															6	6	28	89												
28/ 27																				17	66												
26/ 25																			3	78													
24/ 23																					44												
22/ 21																					45												
Element (X)	ΣX ²		ΣX		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature																						
Rel. Hum.											≤ 0 F	≤ 32 F	≈ 67 F	≈ 73 F	≈ 80 F	≈ 93 F	Total																
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

YEARS

100

MON 1 P

PAGE 2

0900-1100

HOURS 11.5 T.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	* 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
20/ 19																					39
18/ 17																					16
16/ 15																					3
14/ 13																					2
12/ 11																					2
TOTAL	1.1	6.1	10.8	10.1	10.4	11.7	13.7	9.8	8.9	5.9	5.4	2.9	1.7	.9	.4	.2		930	930	930	
																		930		930	
																</					

PSYCHROMETRIC SUMMARY

YEARS

QCT
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																													TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. V.B.	Dry Bulb	Wet Bulb	Dew Point												
92/ 91																	.1	1	1														
90/ 89																	.4	4	4														
88/ 87															.1	.1		2	2														
86/ 85															.5	.2		7	7														
84/ 83														.1	.9	.2		11	11														
82/ 81												.1		1.4	.5			19	19														
80/ 79										.1	.2	1.4		.9	.1			25	25														
78/ 77										.1	.3	1.0	1.2	.3	.1			28	28														
76/ 75										.1	.4	1.5		.5				24	24														
74/ 73									.1	.4	1.1	.6	.2					23	23														
72/ 71								.2	.1	1.1	1.6	1.2	.2					41	41														
70/ 69								.6	1.1	1.1	2.3	.5						52	52														
68/ 67							.3	.8	1.6	1.5	.9		.3					50	50														
66/ 65					.2	.1	.4	1.0	1.0	1.0	1.0							43	43		1												
64/ 63						.1	.4	1.2	1.4	1.5	.2							45	45		9												
62/ 61				.2	.1	.2	.4	2.2	1.5	.8								50	50		33												
60/ 59				.4	.6	1.2	2.2	1.5										55	55		66												
58/ 57			.3	.8	1.4	.8	1.6	1.3	.2									59	59		86												
56/ 55				1.2	1.9	.8	1.4	.8	.1									57	57		92												
54/ 53			.2	.9	1.1	1.4	.4	.2										39	39		106												
52/ 51		.1	.2	.8	.9	.8	1.6	.4										44	44		13												
50/ 49		.1	.2	.5	.8	.6	1.4											34	34		16												
48/ 47			.2	.4	1.0	.8	1.5	.2										38	38		18												
46/ 45		.3	.3	1.0	1.1	1.1	.3											38	38		24												
44/ 43		.6	.6	.9	.6	.6												32	32		29												
42/ 41		.5	.6	.6	.3	.4												24	24		55												
40/ 39		1.0	1.4	.5	.2													29	29		64												
38/ 37		.3	.9	.3														14	14		70												
36/ 35	.3	.4	.5	.1														13	13		84												
34/ 33	.2	.6	.5															13	13		92												
32/ 31		.4	.8	.1														12	12		86												
30/ 29		.1	.2															3	3		119												
28/ 27		.1																1	1		84												
26/ 25																		1	1		77												
Element (X)	Σ X ²		Σ X		Σ		Σ _a		No. Obs.		Mean No. of Hours with Temperature										TOTAL		TOTAL										
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total										
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

PSYCHROMETRIC SUMMARY

YEARS

OCT
MONTH

PAGE 2 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-82

—Q.C.1

PAGE 1 1500-1700
HOURS (L. S. T.)

[illegible]

Fig 052

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

OCI
MONIA

PAGE 2 1500-1700
HOURS (U. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

QCT
MONITOR

PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

23-A2

YEARS

OCT
MONTH

PAGE 2 1800-2000
HOURS (L. S. T.)

[illegible]

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73-A2

QCT
MONIE

PAGE 1 2100-2300
(HOURS 11. 9. T.)

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USAFETAC FORM 0-26-3, OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

2

11

73-82

OCT

726625
STATION

STATION NAME

YEARS

9.1 MONTHS

PAGE 1

All

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
92/ 91																		.0	2	2				
90/ 89																		.1	7	7				
88/ 87																	.0	.0	3	3				
86/ 85																	.1	.1	13	13				
84/ 83														.0	.0	.3	.1		29	29				
82/ 81													.0	.0	.3	.2			36	36				
80/ 79												.0	.0	.3	.3	.0			49	49				
78/ 77											.0	.1	.2	.3	.1	.0			57	57				
76/ 75										.0	.1	.4	.2	.1					59	59				
74/ 73									.0	.1	.3	.4	.1						69	69				
72/ 71								.0	.1	.3	.6	.5	.1						113	113				
70/ 69								.2	.2	.6	.9	.1							157	157				
68/ 67							.1	.4	.7	.7	.4	.1							169	169				
66/ 65					.0	.1	.1	.5	.8	.7	.3								178	178				
64/ 63						.1	.3	.6	1.0	.6	.1								197	197				
62/ 61				.1	.1	.2	.7	1.1	.9	.3									242	242				
60/ 59				.0	.2	.4	1.0	1.3	.8	.1									291	291	16			
58/ 57			.0	.2	.4	.8	.9	1.5	.4	.1									323	323	56			
56/ 55		.0	.0	.2	.5	1.2	1.3	1.0	.3	.0									344	344	150			
54/ 53		.1	.2	.3	1.0	1.1	1.5	.3	.1										341	341	258			
52/ 51		.1	.3	.6	1.3	1.6	1.5	.3	.0										429	429	324			
50/ 49		.1	.7	.9	2.0	1.6	.9	.1											469	469	419			
48/ 47		.2	1.1	1.8	2.0	1.1	.6	.0											512	512	493			
46/ 45		.5	1.4	2.4	2.1	1.0	.1												566	566	606			
44/ 43		.5	1.5	2.2	1.3	.6	.0												462	462	674			
42/ 41	.1	.8	1.9	1.8	1.1	.4	.0												453	453	812			
40/ 39	.2	1.1	1.8	1.6	.6	.1													398	398	775			
38/ 37	.3	1.0	1.9	1.3	.5	.0													368	369	720			
36/ 35	.1	1.3	1.6	1.0	.2														310	310	586			
34/ 33	.3	1.1	1.6	.8	.0														284	284	466			
32/ 31	.4	.8	1.6	.4															234	235	376			
30/ 29	.2	.8	.8	.1															143	143	277			
28/ 27	.0	.7	.3																73	73	246			
26/ 25	.3	.1																	29	29	113			
Element (X)	Σ X ²		Σ X		X		Σ X		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		- 67 F		- 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

USAFETAC

PSYCHROMETRIC SUMMARY:

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-A2

YEARS

OCT
MONTH

PAGE 2

ALI

HOURS (L, S, T,)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0000-0200

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
62/ 61								.2	.1									3	3		
60/ 59									.2									2	2		
58/ 57							.1	.2										3	3		
56/ 55						.1	.2	.1										4	4		
54/ 53						.4	.4	.1										9	9		
52/ 51				.1	.3	.4		.1										9	9		
50/ 49				.1	.7	.3		.1										15	15		
48/ 47				.3	.9	.9	.6											24	24	2	
46/ 45		.2	.1	1.2	.3	1.4	.1											31	31	7	
44/ 43		.2		1.2	1.3	1.6												39	39	15	1
42/ 41		.4	1.1	2.0	1.9	.6	.4											58	58	25	2
40/ 39			.9	1.9	1.3	.6	.1											43	43	29	3
38/ 37		.3	2.7	1.4	.4	.2												46	46	37	4
36/ 35		.3	2.3	1.8	1.2													51	51	69	7
34/ 33		.9	2.3	2.1	.4													52	52	74	24
32/ 31	.2	1.7	4.7	2.8														84	84	67	42
30/ 29		1.8	3.3	1.4														59	59	59	47
28/ 27	.7	1.8	3.8	.6														61	61	92	59
26/ 25	.4	2.2	3.8	.8														65	65	84	51
24/ 23		1.6	2.0	.2														34	34	61	53
22/ 21		2.6	1.2	.1														35	35	63	88
20/ 19	.3	2.9	1.2															40	40	47	78
18/ 17	.2	1.7	.9															25	25	33	79
16/ 15	.9	1.6	.3															25	25	40	62
14/ 13	.2	2.4																24	24	16	80
12/ 11	.4	.9																12	12	25	60
10/ 9	.3	1.3																15	15	19	38
8/ 7	.2	.8																9	9	8	26
6/ 5	.1	.6																6	6	8	26
4/ 3		.4																4	4	6	18
2/ 1	.2	.2																4	4	4	21
0/ -1	.1	.4																5	5	3	7
-2/ -3		.1																1	1	3	7
-4/ -5		.1																1	1	2	4
Element (X)	Σ X ²		Σ X		X		X ²		No. Obs.		Mean No. of Hours with Temperature							Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

669-052

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 71

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

LI-A2

YEARS

NOV
MONTH

PAGE 2 ~~0000-0200~~
HOURS () () ()

[illegible]

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSNORTH AFB SD~~
STATION STATION NAME

23-82

YEARS

~~NOV~~
~~MONTH~~

PAGE 2

~~0300-0500~~
HOURS (11:30-7:00)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
60/ 59									.1									1	1				
58/ 57									.2									2	2				
56/ 55							.4	.3	.1									8	8				
54/ 53						.2	.4	.1										7	7				
52/ 51					.2	.1	.4											7	7				
50/ 49				.2	.7	.8	.7											21	21				
48/ 47			.1	.7	.9	1.0	.3											27	27				
46/ 45			.2	.7	1.1	.9	.1											27	27	1			
44/ 43			.1	1.2	.7	.9	.2											28	28	14			
42/ 41			1.0	1.6	1.4	1.3	.2											50	50	26			
40/ 39			1.4	1.6	1.4	.4												44	44	35	2		
38/ 37		.6	1.4	1.4	1.4	.2												46	46	47	2		
36/ 35		.2	1.3	3.2	.4													47	47	47	10		
34/ 33	.1	1.1	1.4	2.7	.6	.2												55	55	53	19		
32/ 31	.1	2.1	4.6	3.4	.3													95	95	66	41		
30/ 29		1.7	3.0	.7														48	48	76	38		
28/ 27	.3	1.9	4.4	.6														65	65	90	49		
26/ 25	.2	2.2	3.3	.8														59	59	86	57		
24/ 23	.1	3.0	1.7	.1														44	44	81	42		
22/ 21		2.7	1.0	.2														35	35	57	90		
20/ 19	.2	3.0	1.6	.1														44	44	35	95		
18/ 17		2.0	.7															24	24	41	81		
16/ 15	.7	1.2	.4															21	21	34	70		
14/ 13	.9	1.7	.1															24	24	23	89		
12/ 11	.1	1.2	.1															13	14	21	46		
10/ 9	.3	1.2																14	14	12	34		
8/ 7		1.4																13	13	15	34		
6/ 5	.4	.3																7	7	14	14		
4/ 3	.2	.8																9	9	11	14		
2/ 1	.2																	2	2	2	31		
0/ -1	.1	.1																2	2	1	12		
-2/ -3		.2																2	2	1	12		
-4/ -5	.1	.3																4	4	5	1		
-6/ -7	.1																	1	1	2	4		
Element (X)	Σ x ²		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																							
Wet Bulb																							
Dew Point																							

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~

73-82

LOW
MONTH

PAGE 2 USNO-0800
H-185 (1-5-7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		Dry Bulb	Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	32-33							
-8/-9	.2																	2	2	2	1				
-10/-11	.1																	1	1	1	1				
-12/-13																					3				
-14/-15																					2				
-18/-19																					2				
-20/-21																					1				
-22/-23																					1				
-24/-25																					2				
TOTAL	4.6	29.1	28.0	19.1	9.2	6.1	2.9	.4	.4									899	200	899	899				
</																									

PSYCHROMETRIC SUMMARY

73-82

NOV
MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 STATION ELLSWORTH AFB SD STATION NAME

73-A2

YEARS

NOV
MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
6/ 5	.2	.2																4	4	5	14			
4/ 3		.6																5	5	3	15			
2/ 1	.2	.2																4	4	7	16			
0/ -1	.1	.2																3	3	2	8			
-2/ -3		.1																1	1	2	1			
-4/ -5		.2																2	2		1			
-6/ -7	.1																	1	1	3	4			
-8/ -9																					2			
-10/-11																					1			
-14/-15																					1			
-16/-17																					3			
-20/-21																					2			
TOTAL	2.8	19.8	16.2	13.1	12.3	12.2	8.6	6.8	3.7	1.8	1.8	.8	.2					900	900	900	900			

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

NOV
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
76 / 75												.1						1	1					
74 / 73												.2	.3	.7				11	11					
72 / 71											.1	.6	.8	.3				16	16					
70 / 69												.4	.7	.3				13	13					
68 / 67										.1	.6	.2	.6					13	13					
66 / 65								.2	1.1	.8	1.0	.6						33	33					
64 / 63						.1	.2	.4	.6	.9	.2							22	22					
62 / 61						.2	.6	.3	1.1	.2	.2							24	24					
60 / 59							.4	1.7	.9	.2	.1							30	30					
58 / 57						.1	.7	1.3	1.1	.4								33	33					
56 / 55						.2	.2	1.3	.7									22	22					
54 / 53						.4	1.0	1.8	.4									33	33	6				
52 / 51					.7	.7	.9	1.9	.4									41	41	20				
50 / 49					.4	.6	1.2	1.0										29	29	45				
48 / 47				.1	.9	1.1	1.9	.8	.1									44	44	39				
46 / 45				.2	1.0	.9	1.1	.4										33	33	47				
44 / 43				.7	.9	2.1	.7											39	39	45	3			
42 / 41			.6	.6	.6	2.1	.4											38	38	46	2			
40 / 39		.2	.9	1.7	1.8	1.9	.6											63	63	51	6			
38 / 37		.3	.6	1.8	1.8	.8	.1											48	48	69	5			
36 / 35		.2	1.0	1.6	2.0	.1												44	44	66	26			
34 / 33		.6	1.0	1.2	.7													31	31	65	40			
32 / 31	.1	1.6	2.1	1.2	.8													52	52	74	63			
30 / 29		1.0	.6	.8	.1													22	22	66	36			
28 / 27		.7	.4	.4	.1													15	15	67	40			
26 / 25		1.2	1.4	.4														28	28	28	73			
24 / 23		.8	.3															10	10	31	70			
22 / 21	.2	1.7	.3															20	20	25	77			
20 / 19		1.9	.3															20	20	22	94			
18 / 17		1.4																13	13	14	68			
16 / 15	.2	1.3																14	14	21	55			
14 / 13		1.7																15	15	12	60			
12 / 11		.7																6	6	12	67			
10 / 9		.8	.2															9	9	8	38			
Element (X)	ΣX'		ΣX			Σ		Σ _A		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.												≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																								
Wet Bulb																								
Dew Point																								

2

5.1

73-A2

YEARS

NOV
MONTH

1200-1400
HOURS (L. S. T.)

USAFETAC FORM JUN 71 0-26-3 JOL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

73-82

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MONTH

PAGE 1 1500-1700

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82

YEARS

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MONTH

PAGE 2 1500-1700
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

YEARS

NOV
MONTH

PAGE 1

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
64/ 63								.1										1	1				
62/ 61							.1			.1								2	2				
60/ 59							.2	.2	.7									10	10				
58/ 57						.2	.9	.2	.4									16	16				
56/ 55				.1	.1	.1	.6		.2									10	10				
54/ 53					.2	.7	.3	.9										19	19				
52/ 51				.4	.6	.9	.8	.2										26	26				
50/ 49			.1	.1	.9	.2	1.1											22	22	3			
48/ 47			.1	.1	1.7	.4	.4											25	25	11			
46/ 45			.9	.9	1.0	.3	.2											30	30	19			
44/ 43			.1	1.4	1.3	1.3	.3											41	41	24	2		
42/ 41		.1	.2	1.2	2.7	.7	.2											46	46	27	2		
40/ 39		.2	1.1	2.0	2.4	.8	.1											60	60	45	6		
38/ 37		.3	.9	1.9	2.1	.3	.1											51	51	43	5		
36/ 35		.3	1.7	2.2	1.7	.1												54	54	55	12		
34/ 33		.9	1.6	2.4	1.8													60	60	77	27		
32/ 31		2.2	2.8	2.8	1.1	.1												81	81	67	49		
30/ 29		3.0	1.2	1.2	.2													69	69	85	36		
28/ 27		2.6	1.7	.4														42	42	91	43		
26/ 25	.1	1.7	2.1	.6														40	40	91	64		
24/ 23		.8	.3	.1														11	11	42	55		
22/ 21		2.8	1.6															39	39	37	101		
20/ 19	.7	2.3	.8	.1														35	35	46	99		
18/ 17	.4	2.0	.9	.1														31	31	27	69		
16/ 15	.1	1.7	.2															18	18	30	67		
14/ 13	.2	1.0	.1															12	12	21	74		
12/ 11	.6	.8																12	12	16	42		
10/ 9	.2	1.0																11	11	11	34		
8/ 7	.1	.9																9	9	10	40		
6/ 5	.2	.3																5	5	10	9		
4/ 3		.6																5	5	4	16		
2/ 1		.3																3	3	2	18		
0/ -1		.1																1	1	2	10		
-2/ -3		.2																2	2	3	6		
Element (X)	Σ x ²			Σ x			x̄			s _x			No. Obs.			Mean No. of Hours with Temperature							
Rel. Hum.																≤ 0 F	1-32 F	33-67 F	68-73 F	74-80 F	81-93 F	Total	
Dry Bulb																							
Wet Bulb																							
Dew Point																							

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AER SD

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NOV
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PAGE 2 ~~1800-2000~~

[illegible]

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73-A2

NOV
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

569-052

USAFETAC FORM 0-26-3 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
(JUN 71)

USAFETAC

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

STATION NAME

73-82

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2100-2300

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	D.R. W.B.	Dry Bulb	Wet Bulb	Dew Point		
-2/-3		.4																4	4	2	5		
-4/-5																				2	4		
-6/-7		.1																1	1	1	5		
-10/-11																					3		
-14/-15																					1		
-18/-19																					1		
-20/-21																					2		
TOTAL	3.3	28.0	25.8	18.4	11.7	7.0	3.9	1.2	.7									899	899		899		

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

NOV
MONTH

PAGE 1

All

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
76/ 75												.0						1	1					
74/ 73												.1	.1	.1				15	15					
72/ 71											.0	.1	.1	.1				24	24					
70/ 69											.0	.1	.2	.1				26	26					
68/ 67											.0	.1	.1	.1				29	29					
66/ 65										.0	.3	.2	.2	.1				62	62					
64/ 63							.0	.0	.1	.3	.3	.1	.0					60	60					
62/ 61							.1	.1	.3	.3	.1	.1						70	70					
60/ 59					.0	.0	.2	.6	.4	.1	.0							96	96					
58/ 57						.2	.3	.5	.4	.1								112	112					
56/ 55				.0	.0	.2	.4	.6	.2	.0								108	108					
54/ 53					.1	.5	.7	.6	.2									142	142	14				
52/ 51			.0	.1	.4	.6	.8	.5	.1									179	179	33				
50/ 49			.0	.1	.7	.6	.8	.3	.0									185	185	94				
48/ 47		.0	.0	.3	.9	.9	.9	.2	.0									241	241	122				
46/ 45		.0	.1	.6	.9	1.2	.6	.1										255	255	160				
44/ 43		.0	.2	1.1	1.1	1.4	.4	.0										299	299	215				
42/ 41		.1	.6	1.2	1.4	1.3	.2	.0										354	354	265				
40/ 39		.1	1.1	1.7	1.9	.9	.1											416	416	316				
38/ 37		.3	1.3	1.8	1.4	.5	.0											394	394	389				
36/ 35		.3	1.6	1.9	1.4	.1												378	378	479				
34/ 33	.1	1.0	1.8	2.1	.8	.0												414	414	529				
32/ 31	.1	1.8	3.5	2.4	.5	.0												600	600	573				
30/ 29	.1	1.7	2.6	1.1	.1													410	410	584				
28/ 27	.2	1.8	2.8	.5	.0													382	382	648				
26/ 25	.2	1.9	2.3	.6														362	362	589				
24/ 23	.1	1.3	.9	.1														178	178	446				
22/ 21	.0	2.1	1.0	.1														228	228	326				
20/ 19	.2	2.4	1.2	.0														269	269	272				
18/ 17	.3	1.9	.5	.0														194	194	227				
16/ 15	.4	1.5	.3															160	160	253				
14/ 13	.3	1.5	.0															139	139	137				
12/ 11	.3	1.0	.0															92	93	145				
10/ 9	.2	1.1	.0															99	99	100				
Element (X)	Σ x ²		Σ x		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 STATION ELLSWORTH AFB SD 73-82 YEARS NOV MONTH

PAGE 2 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
8/ 7	.1	.8																65	65	86	236	
6/ 5	.2	.4	.0															41	41	65	124	
4/ 3	.1	.6																47	47	51	135	
2/ 1	.1	.2																22	22	25	151	
0/ -1	.1	.1																13	13	12	67	
-2/ -3	.0	.2																13	13	12	49	
-4/ -5	.1	.1																11	11	15	28	
-6/ -7	.0	.0																5	5	7	22	
-8/ -9	.0	.0																6	6	6	10	
-10/-11	.0																	2	2	3	9	
-12/-13																					13	
-14/-15																					8	
-16/-17																					3	
-18/-19																					7	
-20/-21																					8	
-22/-23																					1	
-24/-25																					6	
TOTAL	3.1	24.5	22.0	15.9	11.5	8.5	5.8	4.0	2.2	1.0	.8	.6	.2					7198	7199	7198	7198	
Element (X)	Σ x'		Σ x		Σ		C _x		No. Obs.		Mean No. of Hours with Temperature						Total					
Rel. Hum.	25540280		407926		56.7		18.346		7198		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb	9934259		247649		34.8		14.021		7199		5.0	333.9	9.5	1.6			720					
Wet Bulb	6709192		206652		28.7		10.386		7198		5.5	458.3					720					
Dew Point	3208904		136034		18.9		9.415		7198		23.1	676.9					720					

USAFETAC FORM 0-26-3 OL A. PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

DEC

126625
STATION

ELLSWORTH AFB SD

STATION NAME

YEARS

DEC
MONTH

PAGE 1

0000-0200
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	Dry Bulb	Wet Bulb	Dew Point				
64/ 63										.1								1	1					
58/ 57									.1	.2								3	3					
56/ 55						.1			.1									2	2					
54/ 53						.1	.3	.1										5	5					
52/ 51					.1		.2	.3	.1									7	7					
50/ 49					.3	.1	.2	.1										7	7					
48/ 47				.2	.2	.6	.2	.1										13	13					
46/ 45				.8	.9	.2	.2											19	19	2				
44/ 43				.8	.3	.3	.1											14	14	4				
42/ 41				.5	.5	.2												12	12	12				
40/ 39			.3	1.6	1.2	.2												31	31	16				
38/ 37		.1	.5	2.5	1.1	.2												41	41	24				
36/ 35		.6	2.4	2.6	1.1	.2												64	64	24				
34/ 33	.2	.8	1.4	2.3	.6	.1												69	69	50				
32/ 31	.1	1.1	4.5	4.1	.2													93	93	62				
30/ 29	.2	1.0	2.6	1.2														46	46	76				
28/ 27	.4	2.5	3.7	1.0														70	70	93				
26/ 25	.4	2.2	2.8	.4														54	54	93				
24/ 23	.1	1.8	1.2	.1														30	30	73				
22/ 21		2.7	2.4	.1														48	48	54				
20/ 19	.9	3.8	2.5															66	66	53				
18/ 17	.4	1.3	.8															42	42	55				
16/ 15	.2	2.2	.1															23	23	50				
14/ 13	.2	2.5	.3															28	28	21				
12/ 11		3.0																28	28	26				
10/ 9	.2	2.7																27	27	36				
8/ 7	.4	1.9																22	22	29				
6/ 5		1.3																12	12	17				
4/ 3	.3	1.1																13	13	17				
2/ 1		1.6																15	15	10				
0/ -1	.4	.3																7	7	12				
-2/ -3	.3	.1																4	4	7				
-4/ -5	.2																	2	2	2				
-6/ -7	.3	.2																5	5	3				
Element (X)	Σ X ²	Σ X				Σ		Σ		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.												≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

DEC
MONTH

PAGE 2

~~0000-0200~~
HOURS (L S T)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

DEC
MONTH

PAGE 1 0300-0500
HOURS (L. S. T.)

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US-A-ETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-82
YEARS

DEC
MONTH

PAGE 1 0630-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
58/ 57								.2	.1									3	3		
56/ 55							.1	.1	.2									4	4		
54/ 53								.1	.1									2	2		
52/ 51						.1												1	1		
50/ 49					.1	.1	.2											4	4		
48/ 47				.2	.3	.4	.2	.2										13	13		
46/ 45				.4	.1	.8	.1											13	13	1	
44/ 43			.1	.3	.9													20	20	2	
42/ 41		.1	.2	.8	.5													18	18	8	
40/ 39		.4	.5	.4	1.2	.4												28	28	15	
38/ 37		.3	1.1	1.5	1.1	.2												39	39	20	1
36/ 35		.4	1.5	1.9	1.1													46	46	34	6
34/ 33	.1	.3	2.0	2.5	.1													47	47	32	11
32/ 31		1.3	4.2	2.6	.3													78	78	53	14
30/ 29	.9	1.4	3.5	1.9														72	72	65	19
28/ 27	.2	1.7	3.9	.5														59	59	90	29
26/ 25	.4	3.1	3.0	.4	.1													66	66	87	43
24/ 23	.5	2.5	1.4	.3														44	44	89	37
22/ 21	.3	3.7	2.2	.2														59	59	64	63
20/ 19	.4	3.2	2.9															64	64	49	95
18/ 17	.6	2.7	1.6															46	46	61	78
16/ 15	.3	3.8	.9															46	46	56	104
14/ 13		2.0	.2															21	21	42	72
12/ 11	.3	1.5	.1															18	18	31	49
10/ 9	.1	2.3																22	22	17	49
8/ 7	.3	2.7	.1															29	29	27	62
6/ 5		1.5																14	14	28	26
4/ 3		.8																7	7	10	29
2/ 1		1.5																14	14	10	44
0/ -1		.2																2	2	6	24
-2/ -3	.1	.6																7	7	8	12
-4/ -5	.2	.3																5	5	6	12
-6/ -7	.5	.2																7	7	5	10
-8/ -9	.5																	5	5	7	6
Element (X)	2X ¹		2X		X		X _A		No. Obs.		Mean No. of Hours with Temperature							Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F			Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625. ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

DEC
MONTH

PAGE 2 0600-0800
HOURS, L. S. T.]

[illegible]

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USUAL DAILY
HOURS 11 5 7

USUAL HOURS

1

USAFETAC FORM C-26-3 (OL A, PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE)
JUN 71

USAFETAC

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION NAME

73-A2

YEARS

DEC
MONTH

PAGE 2 0900-1100
HOURS (L. S. T.)

~~0900-1100~~
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

726625
STATION

ELLISWORTH AFB SD
STATION NAME

73-82
YEARS

DEC
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B. W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	* 31	Dry Bulb	Wet Bulb	Dew Point				
70/ 69												.1	.2					3	3					
68/ 67												.1						1	1					
66/ 65											.1							1	1					
64/ 63							.2	.3	.1	.2	.2							10	10					
62/ 61						.1	.1	.8	.4	.2	.1							16	16					
60/ 59						.1		.1	.1	.1	.2							6	6					
58/ 57							.1	.5	.2	.2	.1							11	11					
56/ 55						.2	.4	.3	.2									11	11					
54/ 53					.1	.5	1.1	.6	.1									23	23					
52/ 51					.3	.4	.6	.5	.2									20	20	5				
50/ 49					.6	1.0	1.5	.2	.1									32	32	6				
48/ 47				.2	.4	1.7	1.5	.1	.1									38	38	8				
46/ 45			.3	.2	1.5	1.9	.9	.1										46	46	15				
44/ 43				1.1	1.5	1.3	.4	.1										41	41	29	2			
42/ 41			.3	1.4	1.7	2.3	.2											55	55	31	1			
40/ 39		.2	1.0	1.5	2.4	1.2	.1											59	59	47	2			
38/ 37		.5	1.0	1.6	1.6	.5												49	49	60	7			
36/ 35		.3	.3	1.9	1.7	.4												44	44	79	17			
34/ 33	.1	.5	1.5	2.2	.9													48	48	59	12			
32/ 31	.5	1.2	3.1	3.0	.8													80	80	83	49			
30/ 29	.2	.8	2.5	.3														35	35	68	39			
28/ 27	.1	1.5	1.8	.3														35	35	83	50			
26/ 25	.2	1.6	2.0	.2														38	38	75	48			
24/ 23	.1	.8	1.2															19	19	36	50			
22/ 21	.4	1.3	.9															24	24	37	63			
20/ 19	.2	3.1	1.2															42	42	26	100			
18/ 17	.5	2.9	1.1															42	42	39	85			
16/ 15		1.4	.5															18	18	37	70			
14/ 13		1.3																12	12	22	61			
12/ 11		1.2	.1															12	12	18	58			
10/ 9	.1	1.3																13	13	9	43			
8/ 7		.3																3	3	12	42			
6/ 5	.3	.6																9	9	7	14			
4/ 3		1.1																10	10	17	12			
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total							
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUN 71

PSYCHROMETRIC SUMMARY

~~726625~~ ~~ELLSWORTH AFB SD~~
STATION STATION NAME

73-82

YEARS

DEC
MONTH

PAGE 2 ~~1200-1400~~
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
2/ 1	.2	.5																7	7	10	26	
0/ -1	.1	.1																2	2	3	12	
-2/ -3	.2	.5																7	7	5	8	
-4/ -5		.3																3	3	3	7	
-6/ -7		.4																4	4	3	7	
-8/ -9	.1																	1	1	5	3	
-10/-11																					5	
-14/-15																					8	
-16/-17																					1	
-18/-19																					7	
-20/-21																					1	
TOTAL	3.5	23.9	18.8	14.0	13.5	11.7	7.2	3.8	1.6	.2	.8	.2	.2					930	930	930		

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

DEC
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
70/ 69												.1						1	1						
66/ 65										.1								1	1						
64/ 63											.1							1	1						
62/ 61								.3		.2								5	5						
60/ 59						.2	.1	.1	.1	.2								6	6						
58/ 57					.1	.1	.1	.3		.1								7	7						
56/ 55						.1	.4	.2		.1								8	8						
54/ 53						.2	.5	.1										8	8						
52/ 51					.1	.6	.4	.1	.2									14	14						
50/ 49				.2	.2	.6	.4	.4										18	18	3					
48/ 47				.2	.5	.8	1.2	.1										26	26	7					
46/ 45				.1	1.5	1.4	.1											29	29	4					
44/ 43			.5	1.3	1.1	1.6	.1	.1										44	44	17					
42/ 41			.4	2.2	2.2	1.1	.1											55	55	20	1				
40/ 39		.3	1.3	2.3	2.3	1.1												67	67	29					
38/ 37		.3	1.5	1.9	2.3	.3												59	59	48	8				
36/ 35		.9	1.3	2.3	1.4	.4												58	58	86	9				
34/ 33		1.3	1.3	2.0	1.2													54	54	75	15				
32/ 31		.6	2.4	2.5	1.1													61	61	66	37				
30/ 29	.6	.5	2.5	1.6														49	49	80	48				
28/ 27	.2	2.4	3.1	.3														56	56	77	43				
26/ 25		1.7	2.2	.4														40	40	77	61				
24/ 23		.8	1.1															17	17	57	52				
22/ 21	.3	2.4	1.5															39	39	47	64				
20/ 19	.5	2.2	.8															32	32	32	99				
18/ 17	.5	2.5	.4															32	32	33	89				
16/ 15	.1	1.9	1.0															28	28	31	66				
14/ 13	.1	2.3	.1															23	23	22	56				
12/ 11	.1	2.3																22	22	30	56				
10/ 9	.1	1.5	.1															16	16	22	45				
8/ 7		1.2																11	11	15	48				
6/ 5	.2	.1																3	3	12	20				
4/ 3	.2	1.1																12	12	6	26				
2/ 1		.9																8	8	11	21				
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total		
Dry Bulb																									
Wet Bulb																									
Dew Point																									

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-A2

DEC

PAGE 2

~~1500-1700~~

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726625 ELLSWORTH AFB SD

PSYCHROMETRIC SUMMARY

726625
STATION

ELLSWORTH AFB SD

73-42

YEARS

DEC
MONTH

PAGE 1

1800-2000

NOV 11 5 31

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PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

DEC

726625
STATION

ELLSWORTH AFB SD

STATION NAME

YEARS

MONTH

PAGE 2

1800-2000

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD
STATION STATION

73-82

DEC
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PAGE 1

2100-2300
HOURS (L, S, T.)

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569-052

YEARS

DEC
MONTH

PAGE 2 2100-2300
HOURS (L E T)

USAFETAC FORM 0-26.3 OL A PREVIOUS EDITIONS OF THIS FORM, ARE OBSOLETE

PSYCHROMETRIC SUMMARY:

726625 ELLSWORTH AFB SD

73-42

DEC

STATION

STATION NAME

FEARS

MONTH

PAGE 1

ALL

ALL MONTHS

[illegible]

USAFETAC FORM C 26.3 OL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

726625 STATION ELLSWORTH AFB SD STATION NAME

73-82

YEARS

DEC
MON 1981

PAGE 2

411

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
2/-1	.1	1.1																92	92	77	237				
0/-1	.3	.2																36	36	65	133				
-2/-3	.2	.5																53	53	47	107				
-4/-5	.2	.2																31	31	36	80				
-6/-7	.2	.3																37	37	30	57				
-8/-9	.3																	25	25	45	55				
-10/-11	.2																	15	15	15	58				
-12/-13	.0																	3	3	1	21				
-14/-15	.1																	6	6	6	38				
-16/-17	.1																	9	9	9	21				
-18/-19																					38				
-20/-21																					20				
-22/-23																					16				
-24/-25																					9				
-26/-27																					6				
TOTAL	5.7	33.8	24.6	16.5	8.9	5.7	2.6	1.3	.6	.3	.1	.1	.0					7431	7431	7431	7431				

PSYCHROMETRIC SUMMARY

726625 ELLSWORTH AFB SD

73-82

ALL

STATION

STATION NAME

YEARS

**ALL
MUSIC**

PAGE 1

ALL

ALL
HOURS 11.30 T.3

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
112/111																		.0	1	1															
108/107																		.0	6	6															
106/105																		.0	12	12															
104/103																		.0	20	20															
102/101																	.0	.0	46	46															
100/ 99																.0	.0	.1	81	81															
98/ 97														.0	.0	.0	.0	.1	115	115															
96/ 95												.0	.0	.0	.1	.1	.1	.1	204	204															
94/ 93										.0	.0	.0	.0	.1	.1	.1	.0	.1	271	271															
92/ 91									.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	379	379															
90/ 89								.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	438	438															
88/ 87							.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	614	614															
86/ 85					.0	.0	.0	.0	.1	.1	.2	.2	.1	.1	.1	.1	.0	.0	824	824															
84/ 83						.0	.0	.1	.1	.2	.2	.2	.1	.1	.1	.1	.0	.0	946	946															
82/ 81					.0	.0	.0	.1	.2	.2	.3	.1	.1	.1	.1	.0			1082	1082															
80/ 79			.0	.0	.0	.0	.1	.2	.3	.3	.2	.2	.1	.1	.0				1296	1296															
78/ 77			.0	.0	.0	.1	.1	.3	.3	.3	.3	.2	.1	.0	.0				1550	1550		1													
76/ 75		.0	.0	.0	.1	.1	.3	.3	.3	.3	.2	.1	.1	.0					1673	1673	18	1													
74/ 73		.0	.0	.0	.1	.2	.3	.4	.3	.3	.2	.1	.0	.0					1835	1836	103	6													
72/ 71	.0	.0	.0	.1	.2	.4	.4	.4	.4	.2	.2	.1	.0						1944	1944	300	21													
70/ 69	.0	.0	.1	.2	.3	.4	.5	.4	.3	.3	.2	.1	.0						2333	2333	551	73													
68/ 67	.0	.1	.1	.2	.4	.4	.4	.4	.3	.2	.1	.0							2431	2431	1199	159													
66/ 65	.0	.1	.2	.3	.5	.5	.5	.3	.3	.2	.1	.0							2617	2617	1883	279													
64/ 63	.0	.1	.3	.5	.5	.4	.4	.3	.3	.2	.1	.0							2769	2769	2563	479													
62/ 61	.0	.2	.3	.5	.5	.5	.4	.4	.3	.1	.0								2747	2747	3038	717													
60/ 59	.0	.2	.3	.5	.6	.4	.4	.4	.3	.1	.0								2909	2909	3434	1170													
58/ 57	.0	.2	.4	.5	.5	.5	.4	.4	.2	.1	.0								2820	2820	3678	1782													
56/ 55	.0	.2	.4	.5	.5	.5	.5	.4	.1	.0									2676	2676	3611	2333													
54/ 53	.0	.2	.5	.5	.5	.5	.5	.3	.1	.0									2631	2631	3553	2601													
52/ 51	.0	.2	.4	.5	.5	.5	.5	.2	.0										2641	2641	3449	2937													
50/ 49	.0	.3	.6	.4	.6	.6	.4	.1	.0										2740	2740	3097	3091													
48/ 47	.0	.4	.6	.6	.7	.6	.4	.1	.0										2983	2983	3346	3233													
46/ 45	.0	.4	.4	.7	.8	.6	.2	.0	.0										2768	2768	3384	3444													
44/ 43	.0	.3	.5	.9	.7	.5	.1	.0											2552	2552	3250	3008													
Element (X)	Z _{X1}		Z _X		X		e _X		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		+ 32 F		+ 67 F		+ 73 F		+ 80 F		+ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

PSYCHROMETRIC SUMMARY

73-42

ALL
MORE

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ALL

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PSYCHROMETRIC SUMMARY

726625 STATION CLLSWORTH AFB SD STATION NAME

73-82

ALL
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PAGE 3

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FOR: _____

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

726625 ELLSWORTH AFB SD

73-82

STATION		STATION NAME												YEARS											
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
0-02	MEAN	17.6	22.6	29.4	39.5	48.8	58.0	66.1	63.0	54.6	43.7	30.7	25.9	41.8											
	S D	16.005	14.075	10.294	8.879	7.597	7.672	6.200	6.203	8.398	8.839	11.679	12.365	18.875											
	TOTAL OBS	930	845	930	900	930	899	930	928	900	930	900	929	17951											
3-05	MEAN	17.2	22.0	28.2	37.8	46.8	56.1	63.8	60.7	52.6	42.5	29.8	25.1	40.3											
	S D	16.177	13.995	10.313	8.422	7.175	7.142	5.745	5.968	8.148	8.825	11.745	12.432	18.293											
	TOTAL OBS	930	846	930	900	930	900	929	930	900	930	900	930	17955											
6-08	MEAN	17.1	22.0	29.4	41.1	52.3	62.5	69.6	65.5	56.4	44.1	30.0	24.8	43.0											
	S D	16.345	13.818	11.100	9.616	8.070	7.588	7.050	7.087	9.386	9.573	11.905	12.308	20.472											
	TOTAL OBS	930	846	929	900	930	900	930	930	900	930	900	930	17955											
9-11	MEAN	21.8	28.0	36.9	48.7	59.5	70.0	78.4	75.1	67.2	54.0	38.0	29.7	50.7											
	S D	17.564	15.968	13.158	11.800	9.752	9.135	8.784	8.668	11.509	12.126	15.019	13.770	22.619											
	TOTAL OBS	930	845	930	900	930	900	930	930	900	930	900	930	10955											
12-14	MEAN	25.9	32.2	41.4	53.3	63.3	74.2	83.2	80.2	72.3	59.0	42.4	33.8	55.2											
	S D	17.814	16.570	14.040	13.063	10.803	10.008	9.449	9.197	12.259	13.048	15.875	14.445	23.227											
	TOTAL OBS	930	846	930	899	930	899	930	930	900	930	900	930	10954											
15-17	MEAN	24.0	31.3	41.6	53.8	63.7	74.3	83.6	80.6	72.4	57.4	39.4	31.0	54.5											
	S D	16.963	16.033	13.797	13.153	10.734	10.471	9.274	9.275	12.292	12.734	14.785	13.447	23.744											
	TOTAL OBS	930	846	930	900	930	900	929	928	900	930	900	929	10952											
18-20	MEAN	19.7	25.9	35.2	47.8	57.7	68.5	77.2	73.6	63.8	49.0	33.3	27.2	48.4											
	S D	15.828	14.245	11.483	11.249	9.321	9.589	8.220	8.233	10.333	10.111	12.351	12.578	22.201											
	TOTAL OBS	930	846	930	899	930	900	930	929	900	930	900	926	10950											
21-23	MEAN	18.3	23.9	31.6	42.4	51.7	61.7	69.7	66.3	57.4	45.4	31.6	26.1	43.9											
	S D	15.735	13.972	10.251	9.352	7.765	8.147	6.490	6.617	8.920	9.130	11.978	12.828	19.831											
	TOTAL OBS	930	846	930	900	929	900	930	929	900	930	899	927	10950											
ALL HOURS	MEAN	20.2	26.0	34.2	45.5	55.5	65.7	73.9	70.6	62.1	49.4	34.4	28.0	47.2											
	S D	16.858	15.358	12.924	12.290	10.850	11.008	10.571	10.627	12.681	12.321	14.021	13.381	21.932											
	TOTAL OBS	7440	6766	7439	7198	7439	7198	7438	7434	7200	7440	7199	7431	87622											

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

726625 ELLSWORTH AFB SD

73-82

STATION

STATION NAME

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
00-02	MEAN 14.8	19.5	25.9	35.0	43.9	52.0	58.0	55.3	47.0	37.6	26.5	22.4	36.6
	S D 14.09	12.19	8.60	7.48	6.86	5.88	4.52	5.01	6.55	6.38	9.48	10.40	16.53
	TOTAL OBS 930	845	930	899	930	899	930	928	900	928	900	929	10948
03-05	MEAN 14.5	18.9	24.9	33.8	42.6	50.8	56.7	54.0	45.8	36.7	25.8	21.8	35.6
	S D 14.18	12.21	8.68	7.33	6.88	5.90	4.63	5.08	6.55	6.38	9.57	10.51	16.30
	TOTAL OBS 930	846	930	900	930	900	929	930	900	930	900	930	10955
06-08	MEAN 14.3	18.9	25.8	36.2	46.1	54.7	59.9	56.7	48.1	37.8	25.8	21.5	37.2
	S D 14.33	12.06	9.15	7.70	6.52	5.47	4.59	5.00	6.64	6.64	9.69	10.49	17.49
	TOTAL OBS 930	846	929	900	930	900	930	930	900	930	899	930	10954
09-11	MEAN 18.0	23.3	30.7	40.5	49.7	58.0	63.3	60.8	53.2	43.4	31.1	25.1	41.5
	S D 14.74	12.89	9.67	8.09	6.85	5.95	4.71	5.14	6.51	7.09	10.79	11.03	17.58
	TOTAL OBS 927	845	930	900	930	900	930	930	900	930	900	930	10952
12-14	MEAN 21.1	26.1	33.5	42.7	51.4	59.5	64.6	62.2	55.1	45.8	33.5	27.9	43.7
	S D 14.42	12.71	9.69	8.25	6.85	5.91	4.42	4.89	6.50	7.22	10.77	11.05	17.04
	TOTAL OBS 930	846	930	899	930	899	930	930	900	930	900	930	10954
15-17	MEAN 19.8	25.7	33.6	42.9	51.4	59.4	64.5	62.1	54.8	44.9	31.8	26.1	43.2
	S D 14.09	12.58	9.49	8.18	6.63	5.94	4.11	4.69	6.47	7.11	10.42	10.76	17.30
	TOTAL OBS 927	844	930	900	930	900	929	928	900	930	900	929	10947
18-20	MEAN 16.6	22.1	29.9	40.0	49.0	57.6	62.6	59.7	51.2	40.8	28.2	23.5	40.2
	S D 13.74	12.15	8.81	7.78	6.66	6.11	4.35	4.91	6.51	6.57	9.62	10.57	17.52
	TOTAL OBS 928	845	930	899	930	900	930	929	900	930	900	926	10947
21-23	MEAN 15.5	20.5	27.6	37.0	45.9	54.3	59.7	56.7	48.3	38.7	27.0	22.6	37.9
	S D 13.79	12.08	8.44	7.42	6.63	5.84	4.42	4.96	6.48	6.42	9.54	10.76	16.86
	TOTAL OBS 930	846	930	900	929	900	930	928	900	930	899	927	10949
ALL HOURS	MEAN 16.8	21.9	29.0	38.5	47.5	55.8	61.2	58.4	50.4	40.7	28.7	23.9	39.5
	S D 14.37	12.65	9.63	8.43	7.43	6.66	5.28	5.78	7.36	7.51	10.38	10.91	17.33
	TOTAL OBS 7432	6763	7439	7197	7439	7198	7438	7433	7200	7438	7198	7431	87606



USAFETAC FORM 0 89.5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

726625 ELLSWORTH AFB SD

73-82

STATION	STATION NAME	YEARS												
HRS-151		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	MEAN	6.1	11.2	18.9	28.6	38.6	46.9	52.1	49.1	39.3	29.7	18.3	14.3	29.5
	S D	14.935	12.942	9.987	8.543	8.516	6.652	6.678	7.063	8.103	6.897	9.454	10.414	17.782
	TOTAL OBS	930	845	930	899	930	899	930	928	900	928	900	929	10948
5-05	MEAN	5.5	10.7	18.1	27.9	37.7	46.1	51.4	48.5	38.8	29.0	17.7	13.8	28.9
	S D	15.050	13.053	9.081	8.461	8.664	6.889	6.733	7.003	8.052	6.815	9.432	10.698	17.779
	TOTAL OBS	930	846	930	900	930	900	929	930	900	930	900	930	10955
6-08	MEAN	5.2	10.5	18.6	28.6	39.7	48.4	53.3	50.1	40.1	29.7	17.6	13.5	29.8
	S D	15.077	13.087	9.308	8.264	8.260	6.728	6.442	6.880	7.937	6.685	9.616	10.780	18.482
	TOTAL OBS	930	846	929	900	930	900	930	930	900	930	899	930	10954
9-11	MEAN	8.0	13.1	20.7	30.6	40.5	49.1	53.7	50.9	41.2	31.4	20.0	15.9	31.4
	S D	14.880	12.866	8.994	8.531	8.704	7.505	6.819	7.552	8.076	6.682	9.412	10.772	17.857
	TOTAL OBS	927	845	930	900	930	900	930	930	900	930	900	930	10952
12-14	MEAN	10.3	14.6	21.7	30.5	40.6	49.1	53.1	50.2	40.7	31.6	20.2	17.3	31.8
	S D	14.186	12.030	8.729	8.495	8.595	7.536	6.905	7.625	8.225	7.090	9.155	10.539	17.061
	TOTAL OBS	930	846	930	899	930	899	930	930	900	930	900	930	10954
15-17	MEAN	9.9	14.8	21.4	30.5	40.3	48.9	52.5	49.6	39.9	31.3	20.0	16.7	31.4
	S D	14.169	12.171	8.862	8.426	8.612	7.552	6.959	7.753	8.263	7.093	9.173	10.604	17.016
	TOTAL OBS	927	844	930	900	930	900	929	928	900	930	900	929	10947
18-20	MEAN	7.8	13.2	20.8	30.3	40.7	49.7	53.1	49.7	39.6	30.8	18.9	15.4	30.9
	S D	14.426	12.780	8.885	8.403	8.702	7.381	7.092	7.606	8.613	7.085	9.312	10.772	17.771
	TOTAL OBS	928	845	930	899	930	900	930	929	900	930	900	926	10947
21-23	MEAN	6.7	12.2	20.0	29.8	39.8	48.4	52.7	49.4	39.5	30.3	18.4	14.5	30.2
	S D	14.448	12.743	8.883	8.426	8.533	6.751	6.799	7.328	8.245	6.948	9.365	10.746	17.805
	TOTAL OBS	930	846	930	900	929	900	930	928	900	930	899	927	10949
ALL HOURS	MEAN	7.4	12.5	20.0	29.7	39.7	48.3	52.7	49.7	39.9	30.5	18.9	15.2	30.5
	S D	14.753	12.804	9.052	8.491	8.628	7.222	6.835	7.385	8.220	6.968	9.415	10.740	17.726
	TOTAL OBS	7432	6763	7439	7197	7439	7198	7438	7433	7200	7438	7198	7431	87676

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

736625 ELLSWORTH AFB SC

73-82

JAN:

STATION

STATION NAME

PERIOD

MONITOR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01-02	100.0	100.0	99.5	95.3	82.3	52.3	23.7	4.7	.3	61.4	930
	03-05	100.0	100.0	99.0	94.9	78.9	50.6	23.1	5.3	1.1	60.7	930
	06-08	100.0	100.0	99.5	94.5	77.2	52.2	21.8	4.4	.5	60.0	930
	09-11	100.0	100.0	96.4	87.9	66.3	42.0	17.7	2.9	.3	56.5	927
	12-14	100.0	99.2	93.4	81.5	58.4	34.3	11.8	3.9	.3	53.9	930
	15-17	100.0	99.7	95.9	88.0	68.0	37.6	13.2	3.5	.5	56.5	927
	18-20	100.0	100.0	99.7	94.4	82.5	51.4	21.1	3.7	.5	61.7	928
	21-23	100.0	100.0	99.5	95.6	83.7	53.7	20.8	4.3	.9	61.4	930
TOTALS		100.0	99.9	98.0	91.6	74.7	46.8	19.1	4.1	.6	59.0	7132

RELATIVE HUMIDITY

73-82

352

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	99.9	98.0	95.0	81.9	55.7	31.8	10.1	2.7	62.0	845
	03-05	100.0	99.9	97.8	95.3	79.7	56.9	31.3	9.2	3.2	63.1	846
	06-08	100.0	99.9	98.6	94.1	79.3	54.6	29.7	8.4	2.4	62.0	846
	09-11	100.0	99.1	94.3	80.5	61.2	42.0	21.2	7.2	1.3	56.2	845
	12-14	100.0	97.8	86.4	70.4	53.1	33.6	13.4	3.3	1.1	51.5	846
	15-17	100.0	98.6	89.8	74.6	56.2	36.0	17.5	3.0	.6	53.3	844
	18-20	100.0	100.0	97.9	92.0	74.3	48.5	25.7	5.9	1.1	60.2	845
	21-23	100.0	100.0	96.8	94.8	79.9	52.5	28.0	10.5	2.1	62.2	845
TOTALS		100.0	99.4	95.2	87.1	70.7	47.5	24.8	7.3	1.8	52.1	6763

FORM
JUL 64

0-87.5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF: WEATHER SERVICE/MAC

RELATIVE HUMIDITY

720625 LLLSWORTH AFB SD

73-82

4A2

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	98.9	93.8	83.9	67.1	42.6	20.3	4.2	66.6	930
	03-05	100.0	99.3	99.2	95.2	85.6	69.7	45.7	20.9	4.1	67.6	930
	06-08	100.0	99.8	98.6	93.4	84.3	65.7	41.3	17.8	3.1	66.3	929
	09-11	100.0	98.6	88.3	76.6	61.4	41.2	23.3	9.6	1.4	55.7	930
	12-14	100.0	94.7	79.0	64.1	47.0	32.6	17.2	7.4	.6	49.9	930
	15-17	100.0	94.4	78.4	60.8	44.3	31.0	17.3	6.9	1.3	49.1	93
	18-20	100.0	99.6	94.0	80.5	66.2	46.7	29.9	12.6	2.7	58.7	930
	21-23	100.0	100.0	98.9	91.4	77.9	56.8	36.8	17.7	3.9	64.2	930
TOTALS		100.0	98.4	91.9	82.0	69.1	51.6	31.8	14.2	2.7	59.7	7439

USAFETAC

FORM
JUL 64

0.87.5 (OL A)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/HAC

RELATIVE HUMIDITY

72625
STATION

ELLSWORTH AFB SC
STATION NAME

73-82

PERIOD

496
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90		
APR	00-02	100.0	100.0	99.4	94.3	80.5	65.1	45.7	23.8	5.7	67.0	899
	03-05	100.0	100.0	99.8	96.3	86.9	71.2	47.7	25.1	6.2	68.9	900
	06-08	100.0	100.0	99.8	95.3	79.7	62.8	40.7	21.3	5.8	65.7	901
	09-11	100.0	98.0	87.2	68.9	52.1	36.4	21.7	12.6	2.9	63.5	902
	12-14	100.0	93.8	72.9	53.6	39.2	23.9	13.3	8.0	1.7	46.2	899
	15-17	100.0	92.9	70.4	50.9	37.1	24.8	14.0	8.4	1.4	45.7	900
	18-20	100.0	98.0	89.3	70.6	53.1	36.4	24.1	13.0	2.7	54.6	399
	21-23	100.0	100.0	98.1	88.9	72.6	55.4	37.7	18.6	5.0	63.5	900
TOTALS		100.0	97.8	89.5	77.1	62.7	47.3	30.6	16.4	3.2	54.1	7197

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

720625 LLLSWORTH AFB SD
STATION STATION

73-82

DAY

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFI WEATHER SERVICE/HAC

RELATIVE HUMIDITY

721625 ELLSWORTH AFB SD 73-82 JUN
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01-02	100.0	100.0	99.4	96.2	85.8	68.6	49.5	22.1	4.7	68.4	399
	03-05	100.0	99.9	99.5	97.9	90.7	76.0	54.4	24.9	4.3	71.6	900
	06-08	100.0	99.8	97.2	90.2	77.6	55.1	30.6	9.9	1.9	62.1	900
	09-11	100.0	98.1	90.1	70.7	45.2	21.4	10.3	4.6	.7	49.9	900
	12-14	100.0	95.7	81.8	54.4	30.1	11.6	5.3	1.9	.6	43.7	899
	15-17	100.0	94.3	79.8	53.0	30.1	15.1	6.9	2.3	.4	43.3	900
	18-20	100.0	98.9	92.0	77.7	57.1	33.7	17.2	5.6	.8	53.9	900
	21-23	100.0	99.7	98.9	90.3	78.7	59.6	37.3	14.0	2.4	63.9	900
TOTALS		100.7	98.3	92.4	78.8	61.9	42.6	26.5	10.7	2.0	57.0	7198

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

720625 ELLSWORTH AFB SD
STATION STATION

73-82

JUL

STATION

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10°	20°	30°	40°	50°	60°	70°	80°	90°		
JUL	00-02	100.0	99.8	97.7	88.5	74.4	55.3	33.4	14.4	5.4	67.8	930
	03-05	100.0	100.0	98.4	93.1	81.1	63.5	39.6	19.5	6.7	60.1	929
	06-08	100.0	99.9	96.7	85.8	65.1	43.4	24.1	10.8	4.3	54.7	93
	09-11	100.0	96.6	79.6	56.9	32.8	16.7	8.1	3.2	1.2	45.2	931
	12-14	100.0	89.6	65.1	38.8	18.3	9.6	5.3	2.0	.6	38.5	930
	15-17	100.0	87.6	61.2	34.7	17.1	10.3	5.4	1.7	1.0	37.5	929
	18-20	100.0	96.0	80.9	53.5	35.8	20.4	11.2	4.1	1.4	46.5	930
	21-23	100.0	99.9	94.1	82.5	62.7	44.0	22.5	9.9	2.7	57.5	930
TOTALS		100.0	96.2	84.2	67.4	48.4	32.9	18.7	8.2	2.9	51.6	7438

USAFETACFORM
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

726625 ELLSWORTH AFB SD

73-82

AUG

STATION

STATION NAME

PERIOD

MONIH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	98.5	91.3	74.2	53.9	31.6	12.7	4.8	62.6	728
	03-05	100.0	100.0	99.1	94.7	81.6	62.5	47.1	16.9	7.7	55.1	930
	06-08	100.0	99.6	96.7	86.6	69.6	46.9	26.9	11.6	4.4	59.9	930
	09-11	100.0	95.5	81.3	59.2	35.2	18.9	6.7	2.5	.9	45.6	930
	12-14	100.0	88.5	65.9	37.4	19.9	7.6	3.0	1.3	.3	30.7	930
	15-17	100.0	86.0	61.0	34.8	20.4	7.8	3.7	1.6	.4	37.1	926
	18-20	100.0	96.1	80.0	56.4	36.7	21.4	9.3	3.3	.8	46.0	929
	21-23	100.0	99.9	95.6	82.1	59.8	40.4	21.1	10.1	2.7	56.9	928
TOTALS		100.0	95.7	84.8	67.8	49.6	32.4	17.8	7.5	2.7	51.5	7433

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

726625 ELLSWORTH AFB SD

73-82

SEP

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	96.6	85.8	65.4	45.8	25.4	8.1	2.8	58.7	900
	03-05	100.0	99.9	98.1	88.9	72.9	51.4	31.4	11.6	3.7	61.6	900
	06-08	100.0	99.8	93.7	80.6	63.1	41.3	24.7	10.6	4.1	57.4	900
	09-11	100.0	91.3	71.0	47.1	29.1	16.7	9.6	4.0	1.0	42.7	900
	12-14	100.0	81.2	55.3	33.1	15.0	8.8	5.3	2.2	.4	35.6	900
	15-17	100.0	78.9	52.1	29.2	15.4	8.7	5.4	1.8	.3	34.6	900
	18-20	100.0	95.0	73.9	52.6	33.3	19.1	8.9	3.6	1.8	44.5	900
	21-23	100.0	99.7	93.2	73.6	54.1	35.8	17.8	6.2	2.2	54.0	900
TOTALS		100.0	93.2	79.2	61.4	43.5	28.5	16.1	6.0	2.0	46.6	7200

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

726625
STATION

ELLSWORTH AFB SD

73-82

UCT

STATION

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	96.8	85.5	71.0	49.5	27.9	10.7	4.0	61.1	926
	03-05	100.0	99.9	96.6	88.1	73.5	52.0	30.8	12.4	3.3	61.3	930
	06-08	100.0	99.4	95.8	85.1	69.2	48.2	28.0	11.8	3.7	59.8	930
	09-11	100.0	95.2	75.6	53.0	36.2	23.5	14.0	7.1	2.5	46.3	930
	12-14	100.0	87.2	59.7	37.8	25.7	16.0	9.8	5.2	1.9	40.0	930
	15-17	100.0	89.0	65.5	42.3	27.4	17.8	11.3	5.2	1.9	41.7	930
	18-20	100.0	98.6	88.2	70.6	51.4	32.8	19.4	8.1	3.7	53.0	930
	21-23	100.0	100.0	94.7	82.8	64.5	43.4	25.4	11.5	4.2	58.3	930
TOTALS		100.0	96.2	84.1	68.2	52.4	35.4	20.8	9.0	3.2	52.6	7438

USAFETACFORM
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

706625 ELLSWORTH AFB SD

73-82

NOV
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	03-02	100.0	100.0	98.0	90.6	77.0	52.3	30.6	12.7	2.0	62.0	900
	03-05	100.0	100.0	97.7	91.7	77.7	55.0	30.2	13.6	1.9	62.4	900
	06-08	100.0	100.0	98.2	90.7	75.9	52.2	29.8	14.3	1.6	61.9	899
	09-11	100.0	97.1	87.1	66.7	50.6	34.7	21.8	10.4	1.4	52.4	900
	12-14	100.0	92.0	74.0	50.6	37.0	26.9	16.4	8.0	1.0	46.1	900
	15-17	100.0	96.7	81.9	61.0	43.2	31.3	19.3	8.4	.6	50.1	900
	18-20	100.0	99.8	95.6	85.3	63.8	42.6	26.9	11.0	1.1	58.1	900
	21-23	100.0	100.0	97.8	88.0	71.1	49.3	28.3	12.6	2.2	60.4	899
TOTALS		100.0	98.3	91.3	78.1	62.0	43.0	25.4	11.4	1.5	56.7	7198

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

726625 ELLSWORTH AFB SD

73-82

DEC

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	99.8	98.3	94.1	82.8	58.3	28.0	11.2	2.5	63.0	929
	03-05	100.0	99.9	98.6	94.0	82.5	59.2	30.3	11.9	2.7	63.7	930
	06-08	100.0	100.0	98.6	94.2	81.8	59.0	30.9	11.9	3.3	63.6	930
	09-11	100.0	99.0	96.3	86.3	67.5	45.8	22.9	9.7	3.3	58.8	930
	12-14	100.0	98.0	91.6	75.7	56.0	37.7	15.7	7.6	2.5	54.1	930
	15-17	100.0	99.0	95.9	84.4	65.3	45.6	21.2	9.4	2.7	57.9	929
	18-20	100.0	100.0	98.5	92.4	79.4	55.0	29.8	12.4	3.2	62.7	926
	21-23	100.0	99.9	98.2	93.1	82.2	56.7	30.0	12.6	2.8	63.1	927
TOTALS		100.0	99.5	97.0	89.3	74.7	52.2	26.1	10.8	2.9	60.9	7431

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

726625
STATION

ELLSWORTH AFB SD
STATION NAME

73-82
PERIOD

ALL
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.9	98.0	91.6	74.7	46.8	19.1	4.1	.6	59.0	7432
FEB		100.0	99.4	95.2	87.1	70.7	47.5	24.8	7.3	1.8	59.0	6763
MAR		100.0	98.4	91.9	82.0	69.1	51.6	31.8	14.2	2.7	59.7	7439
APR		100.0	97.8	89.5	77.1	62.7	47.3	30.6	16.4	3.9	58.1	7197
MAY		100.0	99.1	92.1	78.3	63.7	48.2	31.8	16.2	5.2	59.2	7439
JUN		100.0	98.3	92.4	78.8	61.9	42.6	26.5	10.7	2.0	57.0	7198
JUL		100.0	96.2	84.2	67.4	48.4	32.9	18.7	8.2	2.9	51.6	7438
AUG		100.0	95.7	84.8	67.8	49.6	32.4	17.8	7.5	2.7	51.5	7433
SEP		100.0	93.2	79.2	61.4	43.5	28.5	16.1	6.0	2.0	48.6	7200
OCT		100.0	96.2	84.1	68.2	52.4	35.4	20.8	9.0	3.2	52.6	7438
NOV		100.0	98.3	91.3	78.1	62.0	43.0	25.4	11.4	1.5	56.7	7198
DEC		100.0	99.5	97.0	89.3	74.7	52.2	26.1	10.8	2.9	60.9	7431
TOTALS		100.0	97.7	90.0	77.3	61.1	42.4	24.1	10.2	2.6	56.2	67606

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

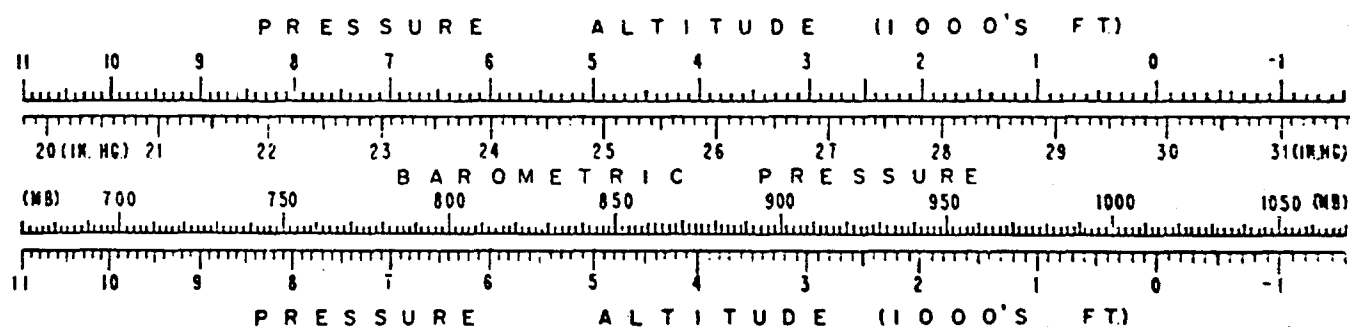
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

726625 ELLSWORTH AFB SD

73-82

STATION		YEARS												
STATION NAME		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
HRS. L.S.														
12	MEAN	26.57326	26.56926	26.47926	26.52326	26.51826	26.54726	26.60226	26.59926	26.62126	26.60826	26.59526	26.543	26.565
	S.D.	.214	.199	.207	.208	.173	.149	.131	.135	.170	.194	.210	.218	.191
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
15	MEAN	26.56426	26.56526	26.47826	26.52626	26.52326	26.55626	26.61126	26.60326	26.62526	26.60926	26.59526	26.541	26.566
	S.D.	.214	.201	.204	.209	.173	.148	.130	.138	.173	.195	.209	.217	.191
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	299	310	3651
18	MEAN	26.57926	26.58326	26.49526	26.54326	26.53426	26.56926	26.62726	26.62126	26.64226	26.62826	26.61426	26.559	26.583
	S.D.	.216	.203	.204	.211	.177	.150	.133	.138	.174	.192	.210	.220	.193
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
11	MEAN	26.58426	26.58926	26.49126	26.53826	26.52326	26.56026	26.61926	26.61326	26.63326	26.62026	26.60926	26.565	26.579
	S.D.	.221	.204	.206	.210	.178	.149	.133	.137	.176	.193	.210	.220	.193
	TOTAL OBS	310	281	310	300	310	300	310	310	299	310	300	309	3649
14	MEAN	26.54626	26.55226	26.45826	26.51026	26.49826	26.53426	26.59426	26.58526	26.60126	26.58426	26.57226	26.530	26.547
	S.D.	.218	.204	.204	.207	.178	.150	.132	.134	.172	.189	.209	.218	.191
	TOTAL OBS	310	281	310	300	310	299	310	310	300	310	300	310	3650
17	MEAN	26.56626	26.56326	26.46226	26.50526	26.48626	26.51726	26.57326	26.56926	26.59826	26.59026	26.58626	26.546	26.547
	S.D.	.212	.201	.200	.201	.176	.146	.132	.132	.165	.185	.208	.215	.188
	TOTAL OBS	310	282	310	300	310	300	309	310	299	310	300	309	3649
20	MEAN	26.57626	26.57726	26.48726	26.53326	26.51026	26.53626	26.59026	26.59226	26.62626	26.61126	26.59726	26.554	26.565
	S.D.	.215	.202	.197	.200	.172	.144	.129	.131	.164	.187	.211	.218	.188
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
23	MEAN	26.57526	26.57526	26.48826	26.54126	26.52526	26.55326	26.61126	26.60526	26.63326	26.61126	26.59726	26.556	26.572
	S.D.	.214	.202	.202	.205	.172	.148	.131	.131	.167	.192	.213	.219	.190
	TOTAL OBS	310	282	310	300	309	300	310	309	300	310	299	309	3648
ALL HOURS	MEAN	26.57026	26.57226	26.48026	26.52726	26.51526	26.54726	26.60326	26.59826	26.62226	26.60726	26.59626	26.549	26.565
	S.D.	.216	.202	.203	.207	.175	.149	.132	.135	.170	.191	.210	.210	.191
	TOTAL OBS	2480	2254	2480	2400	2479	2399	2479	2479	2398	2480	2398	2476	29202

USAFETAC FORM 0895 (OLA)

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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

726625 ELLSWORTH AFB SD

73-82

STATION		STATION NAME												YEARS														
HRS. LST.		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL		
02	MEAN	1019.31018.31013.41013.61012.31011.91013.11013.31015.11016.11017.81016.9																										1015.0
	S D	9.721 9.050 8.974 8.655 7.221 5.167 5.514 5.617 7.228 8.210 9.004 9.433																										8.369
	TOTAL OBS	309 292 310 300 310 300 310 310 300 310 300 310 300 309																										3650
05	MEAN	1019.31018.41013.61013.81012.31012.41013.61013.71015.51016.51018.31017.2																										1015.4
	S D	9.675 9.105 8.860 8.659 7.223 6.087 5.460 5.728 7.280 8.166 8.863 9.368																										8.324
	TOTAL OBS	310 282 310 300 309 299 310 310 300 310 300 310																										3650
08	MEAN	1020.11019.31014.51014.51012.71012.81014.21014.31016.21017.41019.21016.0																										1016.1
	S D	9.790 9.084 8.762 8.613 7.280 6.068 5.549 5.715 7.252 8.000 8.834 9.487																										8.362
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310																										3652
11	MEAN	1019.91019.21014.01014.11012.21012.41013.71013.91015.61016.71018.51017.8																										1015.6
	S D	9.970 9.168 8.803 8.605 7.358 6.066 5.599 5.719 7.303 7.958 8.948 9.479																										8.420
	TOTAL OBS	310 282 310 300 310 300 310 310 300 310 300 310																										3652
14	MEAN	1018.31017.61012.61013.01011.21011.41012.81012.71014.31015.11016.91016.3																										1014.3
	S D	9.784 9.138 8.769 8.466 7.326 6.121 5.575 5.598 7.173 7.822 8.936 9.428																										8.291
	TOTAL OBS	310 282 310 300 310 299 310 309 300 310 300 310																										3650
17	MEAN	1019.41018.31012.91013.01010.81010.81012.11012.31014.31015.81018.01017.4																										1014.6
	S D	9.611 9.042 8.603 8.307 7.292 5.981 5.528 5.507 6.984 7.701 8.628 9.317																										8.361
	TOTAL OBS	310 282 310 300 309 300 309 310 299 310 300 309																										3648
20	MEAN	1019.91019.11014.21014.11011.81011.51012.71013.21015.61016.81018.61017.9																										1015.4
	S D	9.769 9.040 8.472 8.303 7.126 5.888 5.409 5.453 6.898 7.816 8.954 9.504																										8.333
	TOTAL OBS	309 282 310 300 308 299 310 310 300 310 300 309																										3647
23	MEAN	1019.51018.61013.91014.31012.31012.21013.51013.51015.61016.41018.11017.5																										1015.4
	S D	9.771 9.208 8.701 8.526 7.245 6.098 5.542 5.531 7.042 8.043 9.151 9.558																										8.346
	TOTAL OBS	310 282 310 300 309 299 310 309 300 310 300 309																										3648
ALL HOURS	MEAN	1019.51018.61013.61013.81011.91011.91013.21013.41015.31016.41018.21017.4																										1015.2
	S D	9.762 9.107 8.753 8.523 7.273 6.082 5.548 5.634 7.163 7.980 8.949 9.449																										8.367
	TOTAL OBS	2478 2256 2480 2400 2475 2396 2479 2478 2399 2480 2400 2476																										29197

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